Water Resources Data
Idaho
Water Year 1984

COMPLETED

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ORIGINAL

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ID-84-1
Prepared in cooperation with the State of Idaho
and with other agencies

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CALENDAR FOR WATER YEAR 1984

1983

OCTOBER

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Water Resources Data
Idaho
Water Year 1984

by R.W. Harper, H.G. Sisco, I. O'Dell, and S.C. Cordes

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ID-84-1
Prepared in cooperation with the State of Idaho
and with other agencies

I

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UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Idaho, write to
Idaho Office Chief, Water Resources Division
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230 Collins Road
Boise, Idaho 83702

1985

II

Preface

This volume of the annual hydrologic data report of Idaho is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface-, ground-, and quality-of-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by Federal, State, and local agencies and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who revised, edited, illustrated, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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16. Abstract (Limit: 200 words)

Water resources data for the 1984 water year for Idaho consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 178 gaging stations; stage only records for 2 gaging stations; stage only for 9 lakes and reservoirs; contents only for 17 lakes and reservoirs; water quality for 22 gaging stations and 66 wells; and water levels for 420 observation wells. Additional water data were collected at various sites, not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Idaho, adjacent States, and Canada.

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GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

LETTER AFTER STATION NAME DESIGNATES TYPE OF DATA:
(D) DISCHARGE, (C) CHEMICAL, (B) BIOLOGICAL, (M) MICROBIOLOGICAL,
(T) WATER TEMPERATURE, (E) ELEVATION OR CONTENTS, (S) SEDIMENT

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WATER RESOURCES DATA FOR IDAHO, 1984

INTRODUCTION

Water resources data for the 1984 water year for Idaho consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report contains discharge records for 178 gaging stations; stage only records for 2 gaging stations; stage only for 9 lakes and reservoirs; contents only for 17 lakes and reservoirs; water quality for 22 gaging stations and 66 wells; and water levels for 420 observation wells. Additional water data were collected at various sites, not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Idaho, adjacent States, and Canada.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey Water-Supply Papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these Water-Supply Papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of Water-Supply Papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of Water-Supply Papers entitled, "Ground-Water Levels in the United States." Water-Supply Papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Eastern Distribution Branch, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water were published as an official Survey report on a State boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report ID-84-1." Water-data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

The U.S. Geological Survey and organizations of the State of Idaho have had cooperative agreements for the systematic collection of streamflow records since 1909, for ground-water levels since 1946, and for water-quality records since 1965. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Idaho Department of Water Resources, A. Kenneth Dunn, Director

Idaho Department of Health and Welfare, Rose Bowman, Director

Bear River Commission, W. N. Jibson, Chairman

Assistance in the form of funds or services was given by the U.S. Bureau of Reclamation, Department of the Interior, in collecting records for 16 gaging stations; U.S. Army Corps of Engineers, in collecting records for 23 gaging stations and 8 water-quality stations; U.S. Department of State, in collecting records for 7 gaging stations and 1 water-quality station; Bonneville Power Administration, Department of the Interior, in collecting records for 4 gaging stations; U.S. Bureau of Land Management, Department of the Interior, in collecting records for 6 gaging stations; and U.S. Forest Service, Department of Agriculture, in collecting records for 1 gaging station and 1 water-quality station published in this report.

The following organizations aided in collecting records:

Water Districts 01, 31, 33, 34, 37, 37N, and 65K; Oakley Canal Co.; Idaho Power Co.; Washington Water Power Co.; Utah Power & Light Co.; and Salmon River Canal Co.

Organizations that supplied data are acknowledged in station manuscript headings.

WATER RESOURCES DATA FOR IDAHO, 1984

SUMMARY OF HYDROLOGIC CONDITIONS

Idaho hydrology is as diverse and complex as the topography that controls it. The southeastern corner of the State lies within the Great Basin and contributes inflow to the Great Salt Lake in Utah. Precipitation-runoff conditions in this area are influenced greatly by the Wasatch Range, which extends northward into Idaho from Utah and intercepts, or diverts to the north, the normal west-to-east storm track. Mountain ranges and intervening valleys divide the Great Basin on the southeast from the Snake River basin on the north. The Snake River flows into Idaho from Wyoming, where the Continental Divide forms the northern and eastern boundaries of the basin. In Idaho, the Snake River flows westward near the southern edge of the Snake River Plain, which extends the full east-west width of the State. Streams flowing southward from the mountains onto the eastern part of the plain infiltrate the surface; some completely disappear as they recharge the Snake River Plain aquifer. Water from the aquifer discharges into the Snake River from numerous large and small springs along a 30-mile reach above King Hill. North of the Snake River Plain lie a succession of north-south trending mountain ranges that extend into Canada. In this mountainous region, streams are deeply incised, valleys are narrow, and topographic relief often exceeds 5,000 feet; here the Bitterroot Range and the Cabinet Mountains form the natural border between Idaho and Montana. Only two streams, the Kootenai and Clark Fork Rivers, cut through this barrier, flowing westward into Idaho from Montana. The Coeur d'Alene, Clearwater, and Salmon Rivers head within the State. The Salmon River, classified as a Wild and Scenic River, has the distinction of being the longest river in the United States whose drainage basin is entirely within one state.

Precipitation, influenced by topography, varies widely throughout the State. It ranges from about 10 inches per year on most of the Snake River Plain to 20 or 30 inches per year in the southeastern highlands. Precipitation commonly is 40 or 50 inches per year over most of the central mountains but may exceed 60 inches per year in some areas. In the central and southern parts of the State, precipitation is normally seasonal with a winter maximum occurring mostly as snow. In northern Idaho, however, rain is the dominant form of precipitation.

Most streams throughout the State reach their annual peaks during spring snowmelt, but warm, wet Pacific storm fronts bringing heavy rains and thawing conditions to Idaho may cause extreme floods during the winter months as well. On small drainages, violent thunderstorms frequently cause annual peak flows during summer months.

Summary of Streamflow and Reservoir Conditions

Surface-water conditions during the 1984 water year varied widely throughout Idaho. In southern Idaho, flows in the Bear River and upper Snake River basins were in the excessive range (highest quartile of record) all year. In central

Idaho, the Salmon and Clearwater Rivers receded from their high base flows of late summer and fall to flows in the median range, where they remained throughout the rest of the year. In the panhandle region, the Kootenai, Pend Oreille, and Coeur d'Alene Rivers remained in the median range throughout the year. Figure 1 shows the flow volume and annual distribution of discharge compared with median discharge based on a 30-year period at four representative gaging stations.

Idaho experienced a major earthquake (7.3 on the Richter scale) on October 28, 1983. The epicenter was the Big Lost River basin in central Idaho. As an immediate result of the earthquake, discharge in the Big Lost River and other spring-fed streams in the area increased to unprecedented levels. Some spring discharge increased fourfold, and water levels in nearby wells increased dramatically. By the end of March, most of these hydrologic conditions had returned to normal.

The cool, wet summer of 1983 was followed by the extremely cold winter of 1983-84. Although most of the State experienced near-normal precipitation and snowfall, a southern storm track brought unusually heavy snow to southern and eastern portions of Idaho. From the Boise valley and Owyhee Mountains in the southwest, along the divide between the Great Basin and Snake River basin, to the Teton Mountains on the east, many snow courses received two or three times their normal snow moisture.

Winter temperatures at Boise, recorded by the National Weather Service, provide a good measure of the severity of Idaho's winter. During the three winter months, the average temperature recorded at Boise was 24.8 °F. The normal average is 32.7 °F; the winter departure was -7.9 °F. The abnormally low temperatures caused massive ice jams on many Idaho streams. The ice jams and associated flooding caused severe property damage in the cities of Salmon on the Salmon River and Calder on the St. Joe River.

Rapid runoff from heavy winter snowpacks caused record maximum flows of 550 to 50,000 cubic feet per second in many streams in southern Idaho during the last 2 weeks of May 1984. Previous maximum discharges were exceeded, on the average, by about 133 percent. Flows in several streams exceeded the flood magnitude at the 1-percent probability of recurrence. Table 1 lists representative gaging stations showing the 1984 flood peak and recurrence interval and the previous record peak at each site.

Some small irrigation storage reservoirs were nearly overwhelmed by the rapid runoff. High volumes of inflow from Salmon Falls Creek exceeded the capacity of the Salmon River Canal Company Reservoir, and water spilled from the reservoir for the first time since its completion in 1911. Discharge in Goose and Trapper Creeks near Oakley rapidly filled Oakley Reservoir, which caused concern that water would overtop the dam and inundate farms and residential property downstream. Oakley Reservoir had not filled to capacity since June 15, 1921. Discharge from Camas Creek rapidly filled Mud Lake to an unprecedented level of 10.61 feet, which is about 1.6 feet above its normal flood stage. Continuous dike maintenance was necessary during June to avert flooding of low-lying farms and homes.

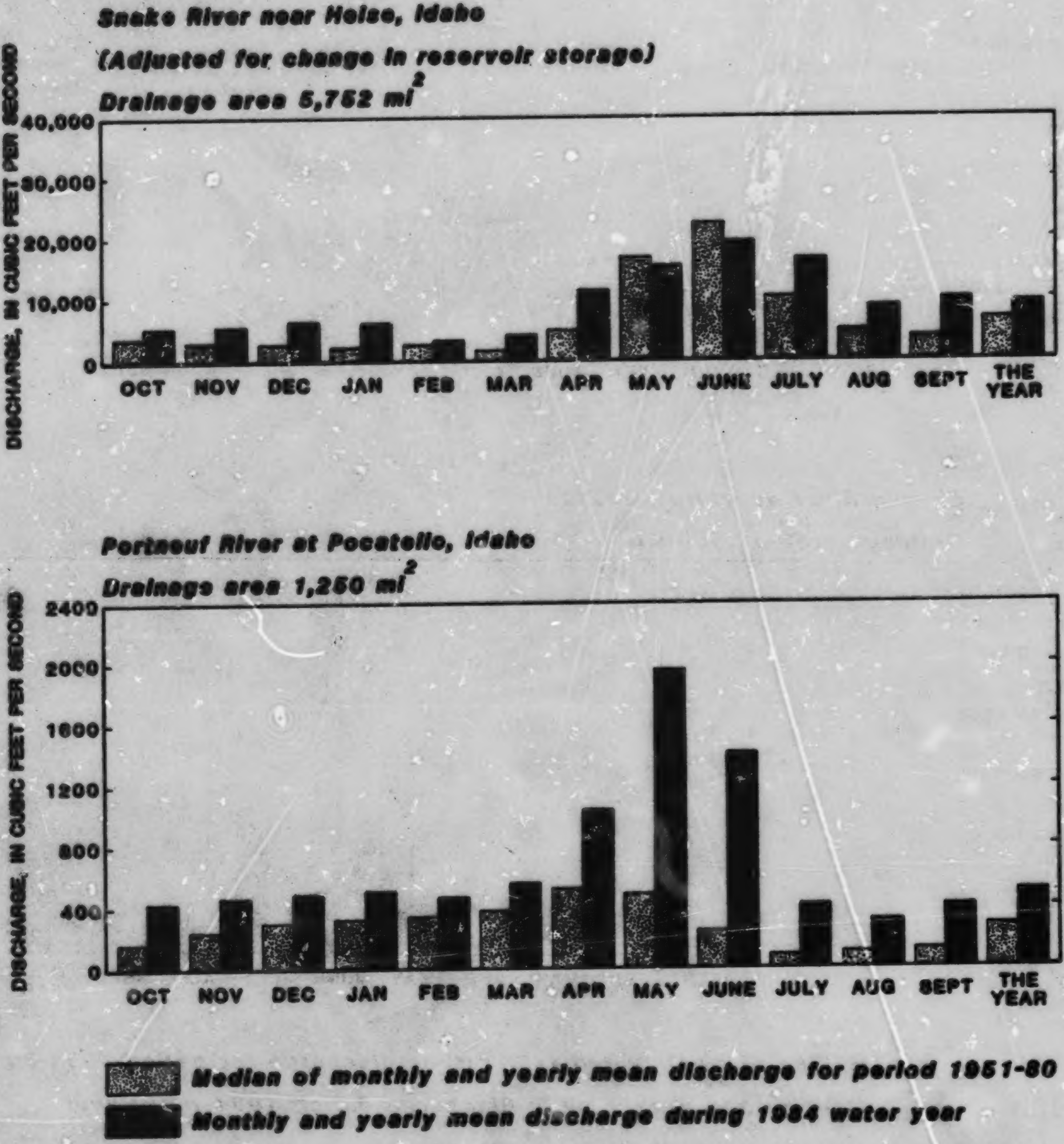
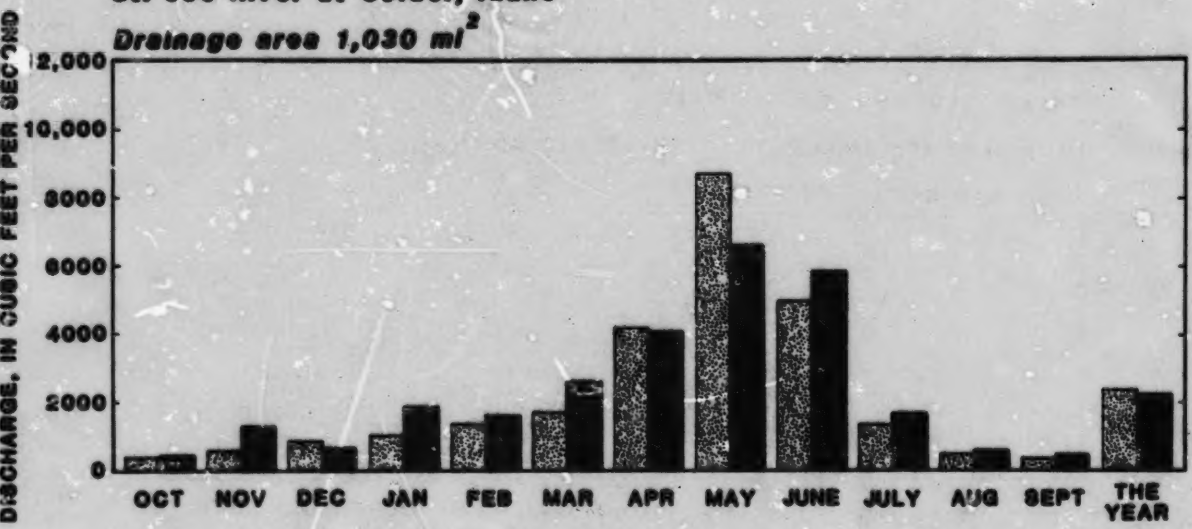


Figure 1. -- Discharge during 1984 water year compared with median discharge for period 1951-80 for four representative gaging stations.

St. Joe River at Calder, Idaho

Drainage area 1,030 mi^2



Salmon River at White Bird, Idaho

Drainage area 13,550 mi^2

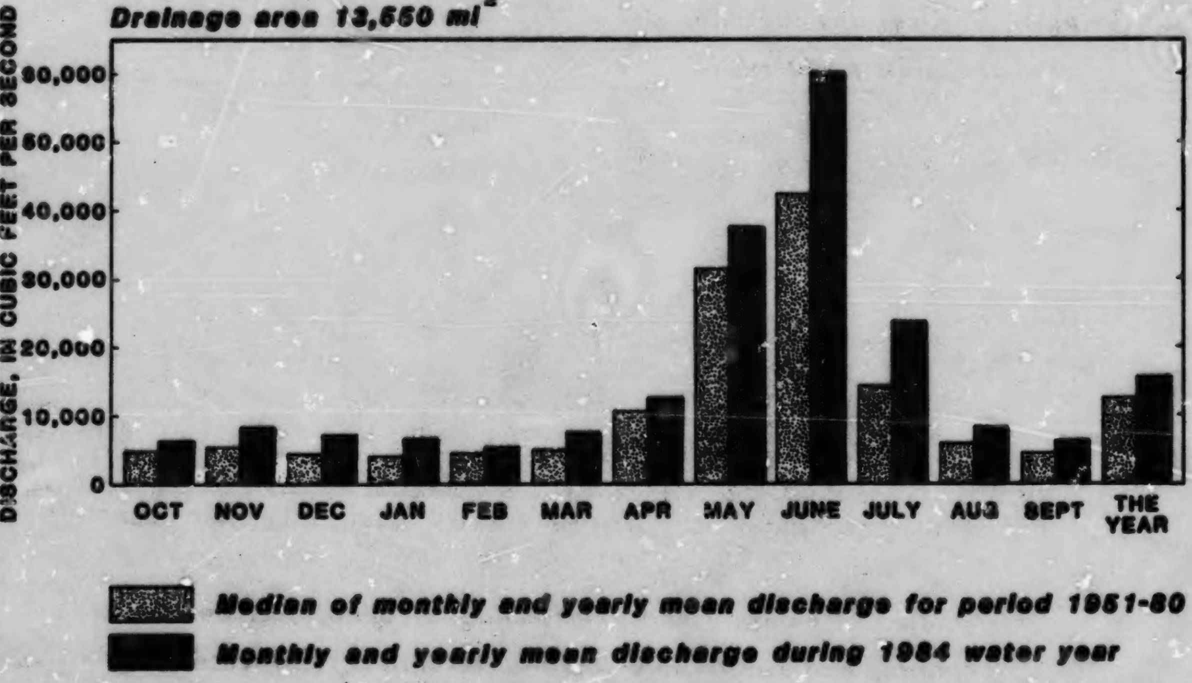


Figure 1. -- Discharge during 1984 water year compared with median discharge for period 1951-80 for four representative gaging stations -- continued.

Table 1.—Comparison of 1984 peaks with previous peaks

Station		1984 Water year flood peak			Previous peak	
Number	Name	Date	Discharge	Recurrence interval in years	Date	Discharge
13042500	Henrys Fork near Island Park, ID	5-23-84	3,030R	80	4-26-46	2,770R
13046023	Henrys Fork near Ashton, ID	5-15-84	8,140R	100+	5- 7-25	6,220R
13050500	Henrys Fork at St. Anthony, ID	5-16-84	13,200R	80	6- 4-75	11,500R
13056500	Henrys Fork near Rexburg, ID	5-22-84	13,600R*	40	6-13-83	11,500R*
13066000	Blackfoot River near Shelley, ID	5-15-84	2,080R	70	5-17-76	2,030R
13094000	Snake River near Buhl, ID	6-14-84	25,300R	10	6-24-64	23,700R
13060000	Snake River near Shelley, ID	6-13-84	30,000R	10	6- 6-76	67,300R**
13105000	Salmon Falls Creek near San Jacinto, NV	5-16-84	3,860	100+	5-18-75	2,430
13108150	Salmon Falls Creek near Hagerman, ID	5-16-84	7,500R	60	1-12-79	3,390R
13112000	Camas Creek at Camas, ID	5-16-84	1,380	50	5- 2-52	1,220
13114000	Beaver Creek at Camas, ID	5-17-84	560	100+	5-18-75	322
13168500	Bruneau River near Hot Spring, ID	5-15-84	6,860	50	3- 1-10	6,500
13213100	Snake River at Nyssa, OR	4-19-84	57,900R	10	5-14-83	49,800R
13305000	Lemhi River near Lemhi, ID	6-21-84	2,430	50	7- 6-75	1,990

R Discharge subject to some regulation at upstream dam.
* Excluding flood peak from Teton Dam failure in 1976.
** Flood peak from Teton Dam failure in 1976.

Most irrigation reservoirs statewide were full by the second week of June. Generally, high base flows helped maintain reservoir levels, despite heavy demands during the hot summer months. Substantial carryover supplies remained in most reservoirs at the end of the water year.

Table 2 shows total storage on September 30 compared with data for September 30, 1983, and with the 1973-82 10-year average for three representative groups of reservoirs.

Table 2.--Comparative reservoir storage data
(values in acre-feet)

Reservoir group	September 1983	September 1984	1973-82 average
Eight major irrigation reservoirs in upper Snake River basin	3,290,000	3,460,000	2,160,000
Six major irrigation reservoirs in Boise and Payette River basins	1,440,000	1,240,000	1,030,000
Three major power and flood-control reservoirs in northern Idaho	4,690,000	4,580,000	4,210,000

Summary of Ground-Water Conditions

Ground water is used principally for irrigated agriculture. The expansion of agriculture in Idaho during the past 20 years has resulted in heavy pumpage of some ground-water basins. Increased withdrawals for irrigation have prompted the Idaho Department of Water Resources to designate eight Critical Ground-Water Areas and three Ground-Water Management Areas.

The continued use of ground water has resulted in water-level declines in some aquifers. These declines in local and regional ground-water systems emphasize the need for, and implementation of, a comprehensive, statewide water-level monitoring program. Observation wells selected to monitor long-term changes in water levels in different areas of Idaho are shown in figure 2.

In 1984, water levels were measured annually, semiannually, or monthly in 299 wells and continually (sites equipped with automatic recorders) in 37 wells in the Federal-State cooperative observation-well network. In addition, water-level measurements were made bimonthly and monthly in 80 wells and continually in 11 wells for the U.S. Bureau of Reclamation. Figures 24-30 (p. 355-361) show locations of observation wells in various parts of the State.

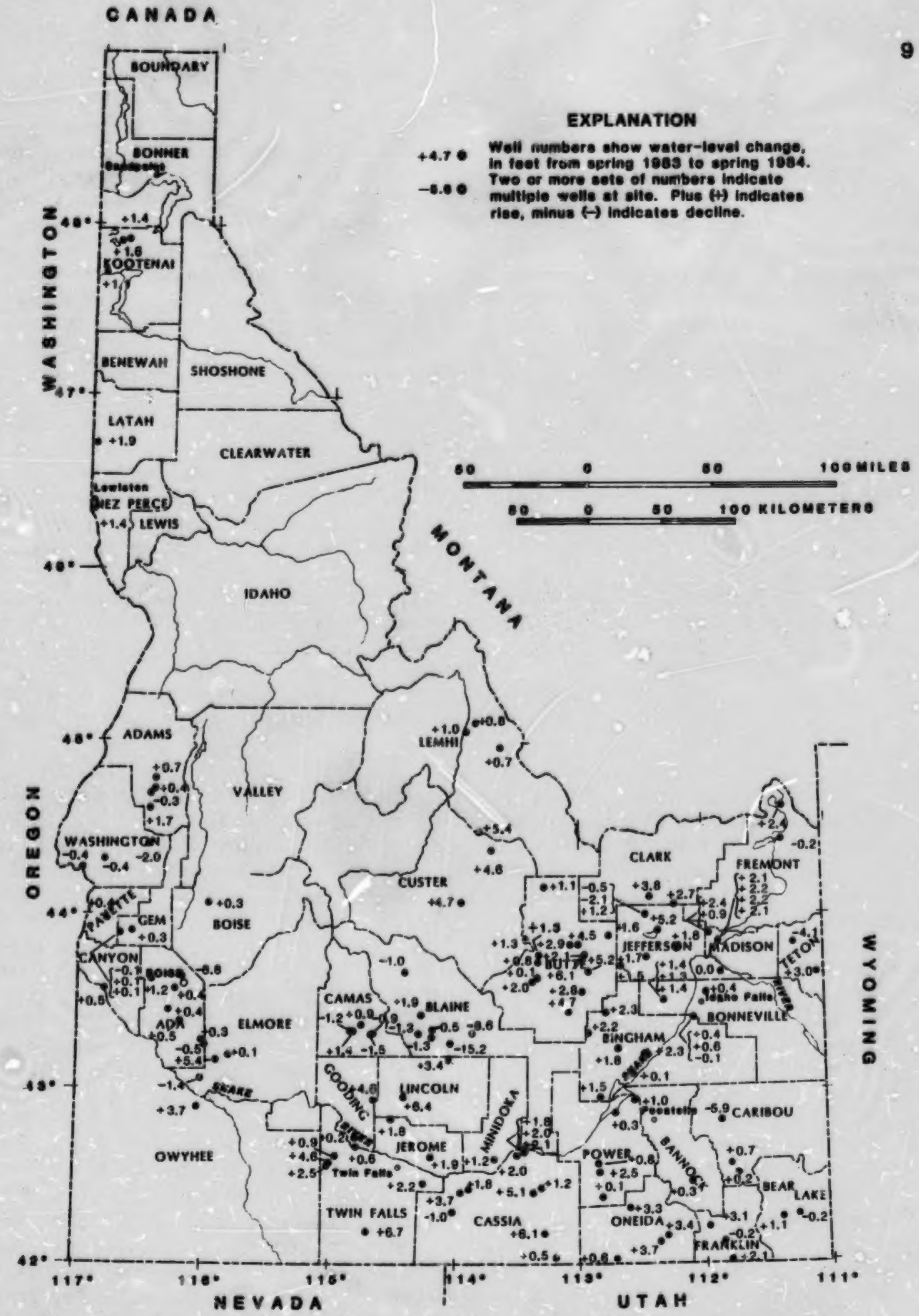

CANADA
EXPLANATION
+4.7 ● Well numbers show water-level change, in feet from spring 1983 to spring 1984. Two or more sets of numbers indicate multiple wells at site. Plus (+) indicates rise, minus (–) indicates decline.
–5.8 ●
50 0 50 100 MILES
50 0 50 100 KILOMETERS
WASHINGTON
OREGON
MONTANA
WYOMING
NEVADA
UTAH
BOUNDARY
BONNER
Sandpoint
KOOTENAI
BENEWAH
SHOSHONE
LATAH
CLEARWATER
Lewiston
NEZ PERCE
LEWIS
IDAHO
ADAMS
VALLEY
LEMHI
WASHINGTON
PAYETTE
GEM
BOISE
CUSTER
CLARK
FREMONT
CANYON
Boise
ADA
ELMORE
CAMAS
BLAINE
BUTTE
JEFFERSON
MADISON
TETON
Idaho Falls
BONNEVILLE
BINGHAM
Pocatello
CARIBOU
GOODING
LINCOLN
JEROME
MINIDOKA
Twin Falls
TWIN FALLS
CASSIA
POWER
BANNOCK
BEAR LAKE
ONEIDA
FRANKLIN
OWYHEE
SNAKE
117°
116°
115°
114°
113°
112°
111°
42°
43°
44°
45°
46°
47°
48°

Figure 2. -- Water-level changes in selected observation wells.

Water levels in the Rathdrum Prairie in north Idaho showed an average rise of 1.4 feet. During this same period, water levels in the Payette River valley in west-central Idaho showed no significant change. Water levels in the Weiser River valley ranged between a rise of 1.7 feet and a decline of 0.3 foot. Near Crane Creek Reservoir, however, water levels declined about 2.0 feet. Water levels in the Salmon and Lemhi River valleys in east-central Idaho rose about 0.8 foot. Water levels rose 4.6 feet in the upper part of the Pahsimeroi Valley, and as the recharge moved downvalley, rose 5.4 feet near the mouth.

In Boise Valley, southwest Idaho, water levels in the shallow aquifer, which is recharged largely from infiltration of water in unlined irrigation canals and ditches, rose about 0.7 foot. In areas of Boise Valley where ground water is extensively withdrawn from the deep aquifer for irrigation, water levels rose 0.4 foot, except along the Boise front, where water in one well declined 8.8 feet. In areas of ground-water development on the Mountain Home plateau, water levels continued a long-term decline and were 0.5 to 1.4 feet lower. In the area south of the Snake River between Bruneau and Grand View, water levels rose about 3.7 feet.

From spring 1983 to spring 1984, ground-water levels in the water-table aquifer in Big Wood River valley, south-central Idaho, declined 1.0 foot in the upper part of the valley and 15.2 feet in the lower part of the valley. Water levels in the artesian aquifer declined 1.3 feet in the western part of the valley and 1.3 feet in the southern part of the valley. In the Little Wood River valley, water levels declined 8.6 feet in the shallow aquifer and rose 3.4 feet in the deep aquifer.

During this same period, water levels in Big Lost River valley rose 4.7 feet in the upper part of the valley, 0.8 foot in the middle part, and 2.0 feet in the lower part. Water levels in Little Lost River valley rose 1.1 feet in the upper part, 2.9 feet near Howe in the lower part, and 6.1 feet at the mouth, where the valley joins the Snake River Plain. Water levels in the Camas Prairie (Fairfield area) rose about 0.5 foot in the artesian aquifer and declined about 0.6 foot in the water-table aquifer. In the Snake Plain aquifer, near the heavily pumped Rupert-Minidoka area, water levels rose about 1.8 feet. Water levels in the Jerome, Eden, and Shoshone areas, which are recharged largely from infiltration of water in unlined irrigation canals and ditches, rose 1.8 to 6.4 feet. Near Gooding, water levels rose 4.6 feet, and south of Wendell, water levels rose about 0.4 foot. Water levels in the tributary valleys south of the Snake River rose 0.5 to 6.7 feet. In the Blue Gulch area, water levels rose 0.9 to 4.6 feet.

In southeast Idaho between American Falls and Idaho Falls, water levels were 0.1 to 1.8 feet higher in the spring of 1984 than in the spring of 1983. Water levels in the central part of the Snake Plain aquifer rose 1.3 to 5.2 feet. Water levels in the Portneuf River valley ranged between a rise of 0.3 foot and a decline of 5.9 feet. Water levels in the Mud Lake area rose 1.2 to 5.2 feet. Ground-water levels in the Island Park area rose about 1.1 feet. In the Henrys Fork area, water levels rose about 0.9 to 2.4 feet. Water levels in the Malad Valley rose about 2.8 feet. In the Bear River valley, water levels ranged between a rise of 3.1 feet and a decline of 0.2 foot.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report are defined below. See also the table for converting English units to International System of units (SI) on the inside back cover.

Acre-foot (ac-ft, AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

Alkalinity refers to the capability of water to neutralize acids. The presence of carbonates, bicarbonates, and hydroxides is the most common cause of alkalinity in natural waters.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer, tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5 °C ±0.2 °C on m-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35 °C ±1.0 °C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (ft3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second, and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water, together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Micrograms per gram (UG/G) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m2), acres, or hectares. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (ML) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (MM), of suspended sediment or bed material determined either by sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (MM)	Method of analysis
Clay..........	0.00024 - 0.004	Sedimentation
Silt..........	.004 - .062	Sedimentation
Sand..........	.062 - 2.0	Sedimentation or sieve
Gravel........	2.0 - 64.0	Sieve

The particle size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass, or volume.

Periphyton is the assemblage of micro-organisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Polychlorinated biphenyls (PCB's) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Runoff in inches (IN) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 feet above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (TONS/DAY) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is quantity of suspended sediment passing a section in a specified period.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble subetances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reaction with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known, especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25 °C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids concentration of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water, per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff," as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Natural substrates refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The use of artificial substrates simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest USGS topographic map as the boundary of the lake and measured in acres by a planimeter. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on an 0.45-micrometer filter.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata, is the following:

Kingdom...............Animal
Phylum................Arthropoda
Class.................Insecta
Order.................Ephemeroptera
Family................Ephemeridae
Genus.................*Hexagenia*
Species...............*Hexagenia limbata*

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature, whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual basic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1984, is called the "1984 water year."

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 13317000, which appears just to the left of the station name, includes the 2-digit part number "13" plus the 6-digit downstream order number "317000."

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 3 below.

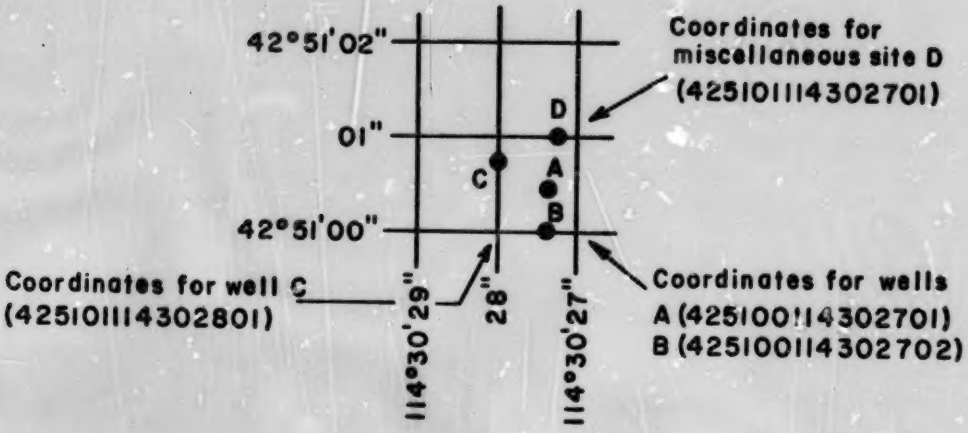

42°51'02"
01"
42°51'00"
Coordinates for miscellaneous site D
(425101114302701)
D
C
A
B
Coordinates for well C
(425101114302801)
114°30'29"
28"
114°30'27"
Coordinates for wells
A (425100114302701)
B (425100114302702)

Figure 3.--System for numbering wells and miscellaneous sites (latitude and longitude).

Idaho Well-Numbering System

The well-numbering system used by the Geological Survey in Idaho indicates the location of wells within the official rectangular subdivisions of the public lands, with reference to the Boise base line and meridian. The first segment of a well number indicates the township, the second the range, and the third the section in which the well is situated. The letters following the section number indicate the well location within the section: The first letter denotes the 160-acre tract, the second the 40-acre tract, and the third the 10-acre tract in which the well occurs. The letters are assigned in a counterclockwise direction, beginning in the northeast quarter (fig. 4). The last numeral is a serial number assigned when the well is inventoried. Thus, well 53N-04W-28CAB1 is in the NW¼NE¼SW¼ sec. 28, T. 53 N., R. 4 E., and is the first well inventoried in that tract.

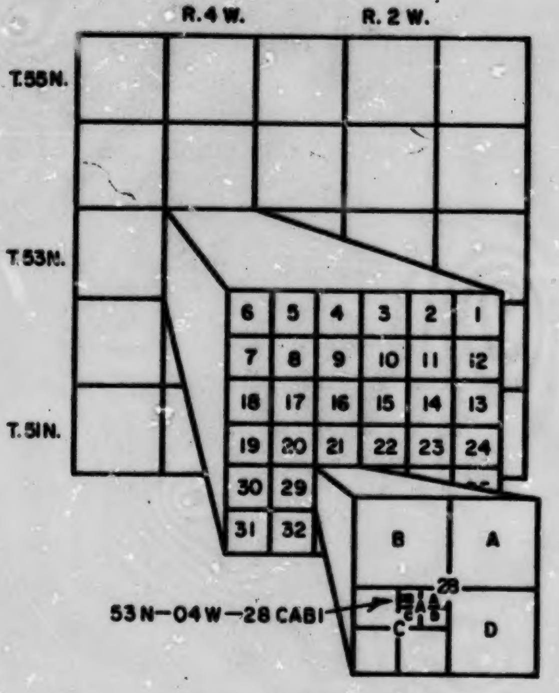


Figure 4.—Diagram showing Idaho well-numbering system.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data-collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-to-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes and reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and the yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations, the stage-discharge relation is affected by changing stage; at these stations, the rate of change in stage is used as a factor in computing discharge.

At some gaging stations, the stage-discharge relation is affected by ice during the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations, there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute the daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals, a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously, if a significant error in published records was discovered, a revision was published in the first report following discovery of the error. This paragraph then served to document for users all the reports in which revisions had been published for the station and the water years to which the revisions applied. However, beginning with the 1983 water year, revisions will no longer be published, but appropriate changes will be made in WATSTORE files. All previous revisions are, of course, in WATSTORE, and users are encouraged to obtain all required data from the WATSTORE computer files (see the section, "Access to WATSTORE Data").

Under "REVISED RECORDS," a year listed without qualification indicates that daily, monthly, or annual discharges were revised. The qualifications (M), (m), and (P) mean that only the instantaneous maximum, the instantaneous or daily minimum, and flood peaks above the base, respectively, have been revised. A "W" for "WATSTORE" will be shown, replacing the name of the data report in which the revised values would previously have been published, for all revisions made after 1982. For example, the notation for indicating that the 1979 water-year daily values for a particular station in Idaho have been revised during the 1983 water year would no longer be "WDR ID-83-1: 1979," but "W 1983: 1979." If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gages, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations, information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. Under "EXTREMES" are given first, the extremes for the period of record; second, information available outside the period of record; and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents) it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations, peak discharges are listed with "EXTREMES FOR THE CURRENT YEAR;" if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

Skeleton rating tables are published, immediately following "EXTREMES," for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN") or in acre-feet (line headed "AC-FT"). Figures of cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs, the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs, a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation, or if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cubic foot per second; to tenths between 1.0 and 10 cubic feet per second; to whole numbers between 10 and 1,000 cubic feet per second, and to 3 significant figures above 1,000 cubic feet per second. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the State Office.

Records of Discharge Collected by Agencies Other Than the Geological Survey

Records of discharge not published by the Geological Survey were collected in the current water year by other State and Federal agencies. The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of such sites. Information on records available at specific sites can be obtained upon request.

Access to WATSTORE Data

The National WATer Data STOrage and REtrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from the Water Resources Division's State Office (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The U.S. Geological Survey operates two surface-water quality monitoring networks--the National Stream Accounting Network (NASQAN) and the National Hydrologic Benchmark Network. In Idaho, surface-water quality data are collected at NASQAN sites on the Snake, Salmon, Clearwater, and Kootenai Rivers, and at hydrologic benchmark sites on Big Jacks and Hayden Creeks. Surface-water quality data are also collected at various sites for other Federal, State, and local agencies. Ground-water quality data are not routinely collected on a statewide basis. Rather, data collected are associated with specific projects in cooperation with other Federal, State, and local agencies. Along the Thousand Springs reach of the Snake River, between Twin Falls and Hagerman, Idaho, water-quality data are routinely collected at selected springs in cooperation with the Idaho Department of Water Resources.

The descriptive heading for water-quality records gives the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

Water Analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for surface-water stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily, or in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the Data

Ground-water level data from the statewide network of observation wells are published herein. This network is designed so that the fewest number of wells are used to obtain the most significant data in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figure 3.

Measurements are made in many types of wells under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to either National Geodetic Vertical Datum of 1929 (NGVD) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot.

Aquifer Names

The names of aquifers and their geologic ages adopted for use in Idaho are from the stratigraphic names listed in the Idaho section of the U.S. Geological Survey Bulletins 1056-B, 1200, and 1395-A. Names will be modified where necessary as official changes in stratigraphic nomenclature occur.

If a formal name has not been assigned to the aquifer, the lithology and its age are used to designate the water-bearing unit. Although some wells are supplied by more than one aquifer, only the major aquifer penetrated by the well is given in the well description.

Well Descriptions

For each well, the well description includes, if available, the following information: Latitude-longitude number, Idaho well number, owner, method of construction, use of well, type of well (artesian or water table), formal aquifer name or lithology and geologic age, diameter of casing, depth of well, depth of perforations or screen, altitude of land-surface datum, remarks of unusual conditions affecting the water level, acknowledgment of outside persons or agencies contributing data, and a description of the measuring point. The depth of the well at the time it was originally inventoried is given in the well description. If the well has been deepened or filled in, the new depth and date the change was discovered are noted following the notation of land-surface datum.

When a well is added to the State observation-well network, all its prior water-level measurements may be obtained from the Idaho Office.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
3-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages
8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

The following figures 5 - 11 show locations of surface-water and water-quality stations in various parts of Idaho. Shading indicates areas of detailed study. Data for these areas are listed in this report, but individual collection sites are not shown.

EXPLANATION

River basin boundary and number

〜

PART 13

Gaging station and number
Inverted symbol indicates water-quality station

▲321500

Chemical-measurement site

↗

Temperature-measurement site

↖

Biological-measurement site

‾▼

Sediment-measurement site

▼‾

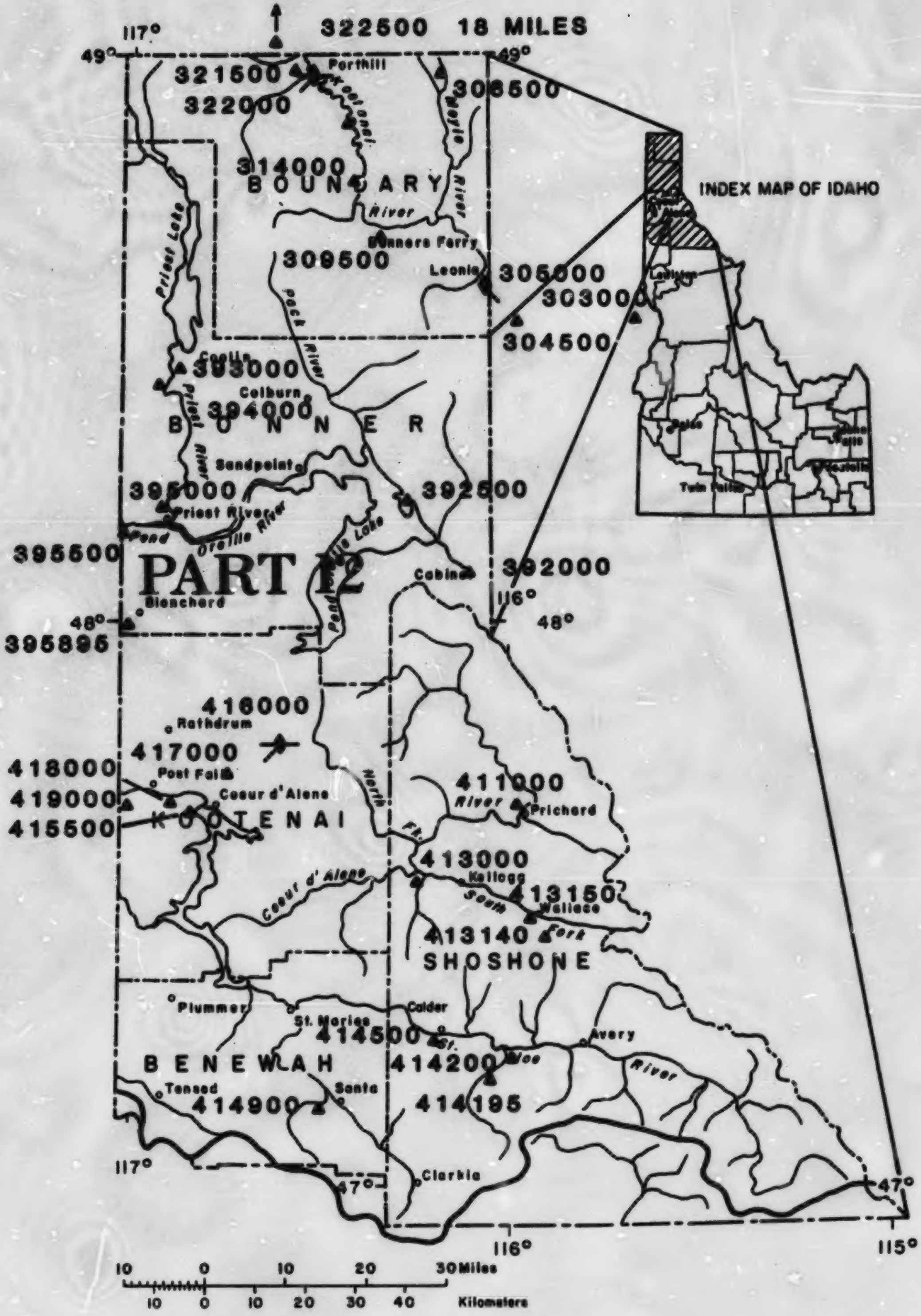

322500 18 MILES
117°
49°
49°
Porthill
321500
322000
306500
Kootenai
Moyie
River
314000
BOUNDARY
River
Bonners Ferry
309500
Leonia
305000
303000
304500
Priest Lake
Pack River
Coolin
393000
Colburn
394000
BONNER
Priest
River
Sandpoint
392500
395000
Priest River
Pend
Oreille River
Pend Oreille Lake
395500
PART 12
Cabinet
392000
116°
48°
Blanchard
48°
395895
416000
Rathdrum
417000
418000
Post Falls
Coeur d'Alene
419000
KOOTENAI
415500
North
Fk.
411000
River
Prichard
413000
Kellogg
413150
South
Wallace
Fork
Coeur d'Alene
413140
SHOSHONE
Plummer
St. Maries
Calder
414500
St.
Joe
Avery
River
BENEWAH
414200
Tensed
Santa
414900
414195
117°
47°
Clarkia
47°
116°
115°
10 0 10 20 30 Miles
10 0 10 20 30 40 Kilometers
INDEX MAP OF IDAHO
Lewiston
Boise
Twin Falls
Idaho Falls
Pocatello

Figure 5. -- Location of surface-water and water-quality stations in north Idaho.

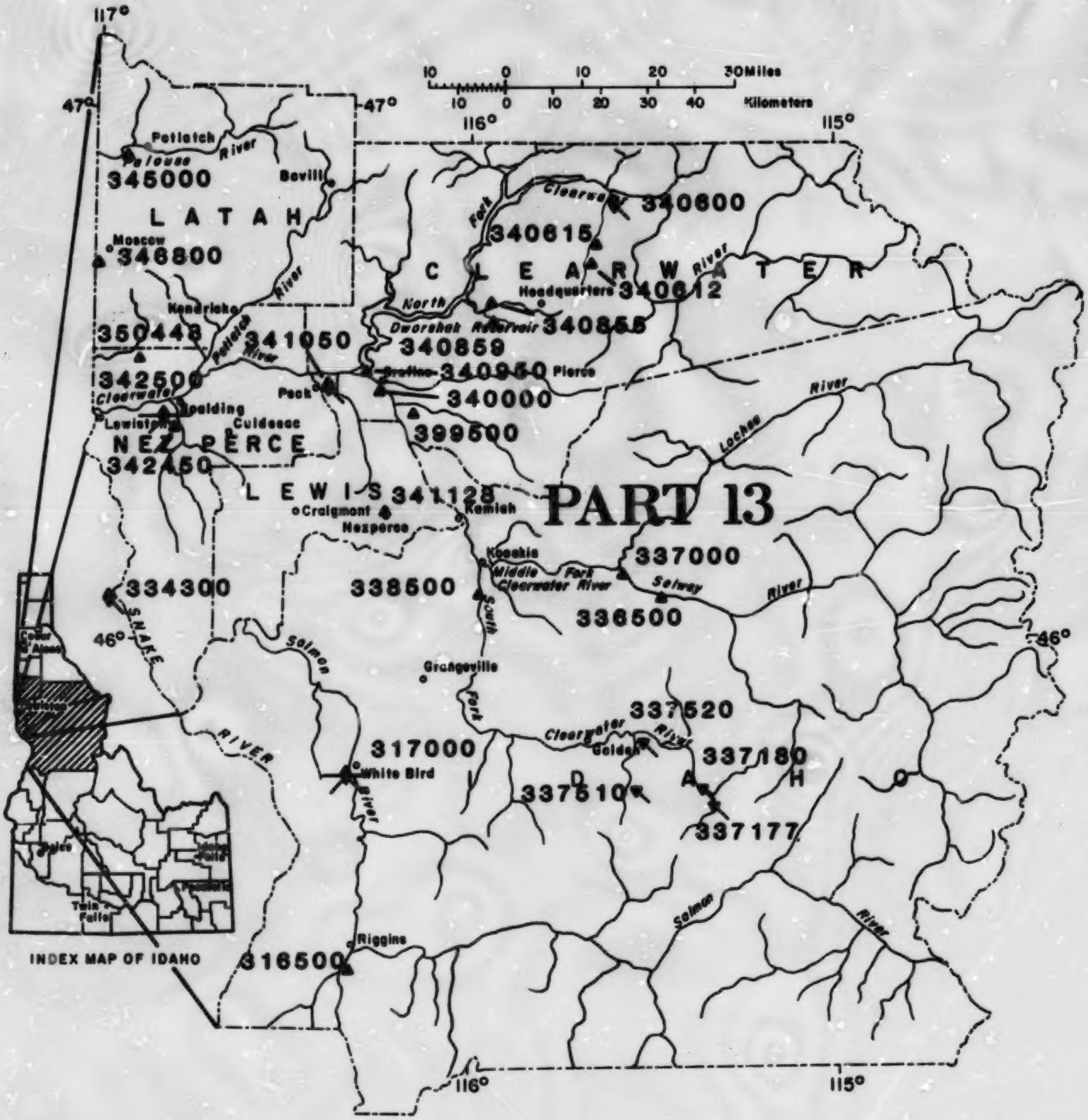

117°
47°
47°
116°
115°
10 0 10 20 30 Miles
10 0 10 20 30 40 Kilometers
Potlatch
Palouse
River
345000
Bovill
LATAH
Moscow
346800
Kendrick
Potlatch
River
350448
341050
342500
Clearwater
Spalding
Lewiston
Culdesac
NEZ PERCE
342450
Peck
Orofino
340950
Pierce
340000
399500
Clearwater
340600
Fork
340615
CLEARWATER
River
Headquarters
340612
North
Dworshak Reservoir
340855
340859
Lochsa
River
LEWIS
341128
Craigmont
Nezperce
Kamiah
PART 13
Kooskia
Middle Fork
Clearwater River
337000
Selway
River
336500
338500
South
334300
SNAKE
46°
46°
Salmon
Grangeville
Fork
RIVER
337520
Clearwater
Golden
River
337180
317000
White Bird
337510
IDAHO
337177
River
Salmon
River
Riggins
316500
116°
115°
INDEX MAP OF IDAHO
Coeur d'Alene
Boise
Idaho Falls
Pocatello
Twin Falls

Figure 6. -- Location of surface-water and water-quality stations in north-central Idaho.

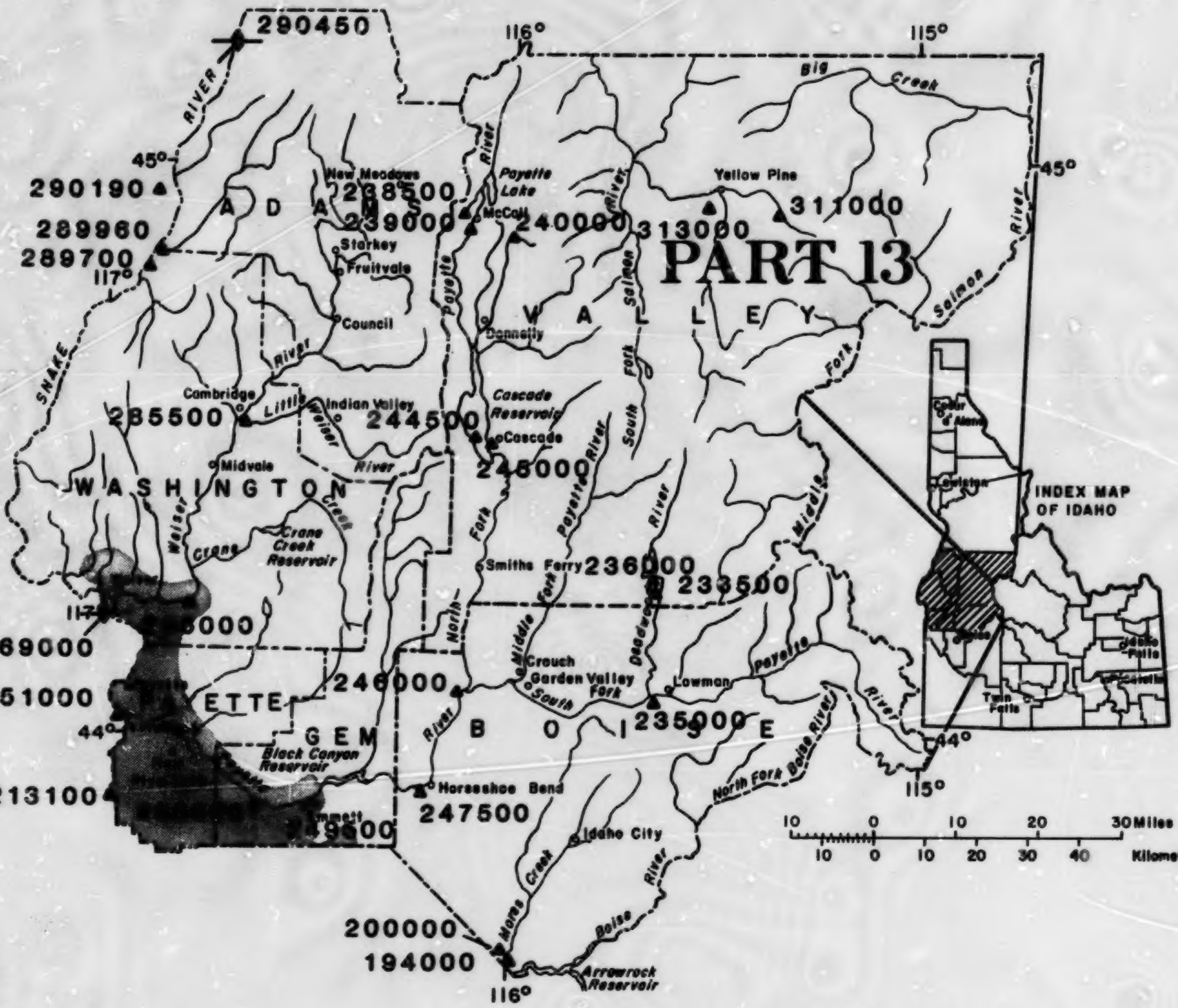
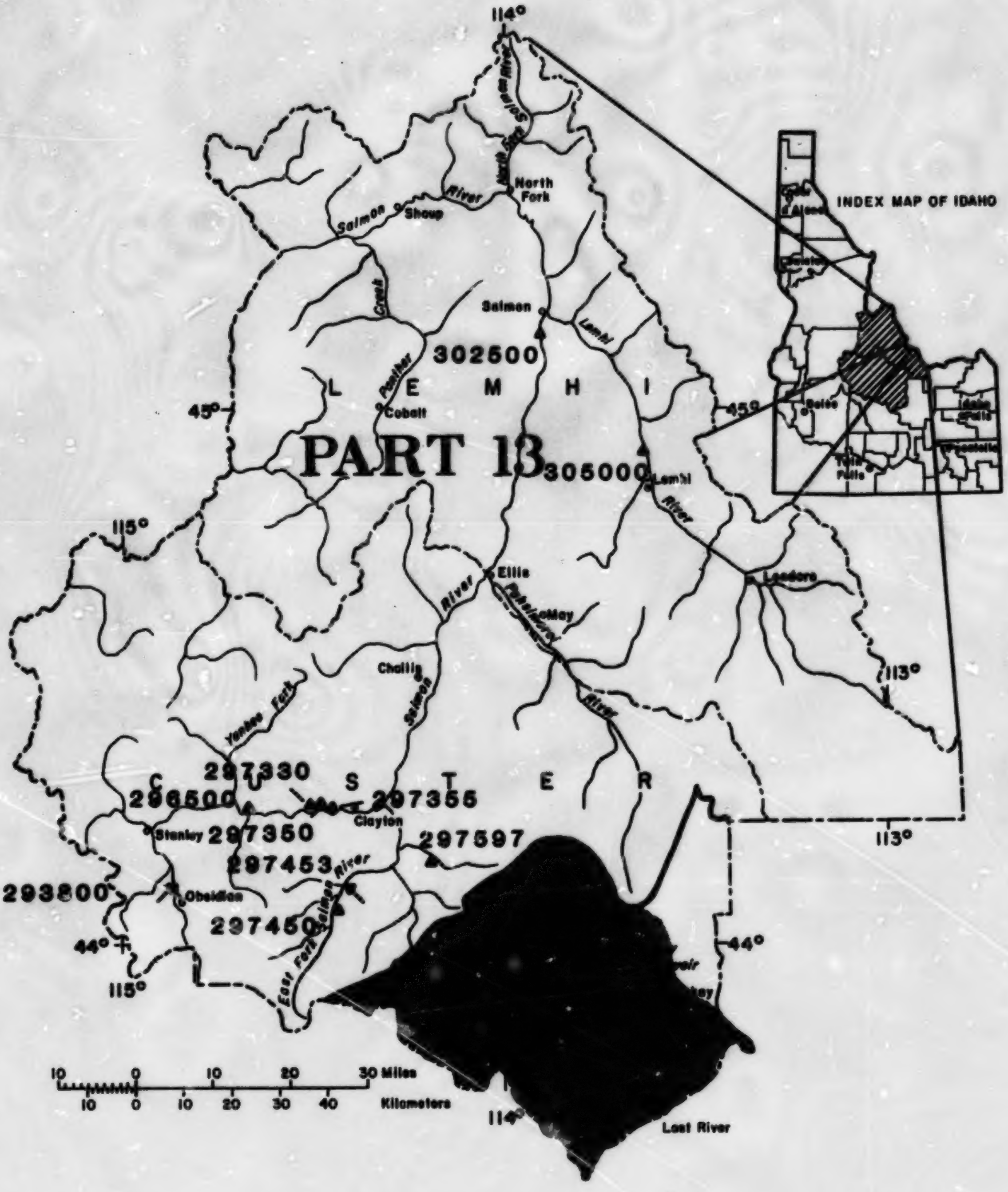

PART 13
290450
116°
115°
RIVER
Big Creek
45°
290190
289960
289700
117°
New Meadows
288500
239000
McCall
Payette Lake
River
240000
313000
Yellow Pine
311000
A D A M S
Starkey
Fruitvale
Council
Payette
V A L L E Y
Salmon
River
Salmon
River
Donnelly
SNAKE
River
Cambridge
Little
Weiser
Indian Valley
285500
244500
Cascade Reservoir
Cascade
246000
South Fork
Fork
Midvale
River
WASHINGTON
Creek
Crane Creek Reservoir
Crane
Weiser
Payette River
INDEX MAP OF IDAHO
Coeur d'Alene
Lewiston
Boise
Idaho Falls
Pocatello
Twin Falls
Middle
North Fork
Smiths Ferry
236000
233500
River
Deadwood
117°
000
269000
Crouch
Middle Fork
Garden Valley
South Fork
Lowman
Payette
River
251000
ETTE
246000
River
B O I S E
235000
44°
GEM
Black Canyon Reservoir
North Fork Boise River
44°
115°
213100
Emmett
249500
Horseshoe Bend
247500
Idaho City
Creek
River
10 0 10 20 30 Miles
10 0 10 20 30 40 Kilometers
200000
More
Boise
194000
Arrowrock Reservoir
116°

Figure 7. -- Location of surface-water and water-quality stations in west-central Idaho.


114°
Salmon River
North Fork Salmon River
North Fork
Salmon
Shoup
River
Creek
Panther
Salmon
Lemhi
302500
L E M H I
45°
Cobalt
305000
Lemhi
Lemhi River
115°
Ellis
River
Pahsimeroi River
May
Challis
Salmon
Yankee Fork
River
297330
C U S T E R
296500
297355
Clayton
Stanley
297350
297597
297453
River
293800
Obsidian
297450
East Fork Salmon River
44°
115°
44°
113°
113°
INDEX MAP OF IDAHO
Coeur d'Alene
Lewiston
Boise
Idaho Falls
Twin Falls
Pocatello
45°
10 0 10 20 30 Miles
10 0 10 20 30 40 Kilometers
114°
Lost River

PART 13

Figure 8. -- Location of surface-water and water-quality stations in east-central Idaho.

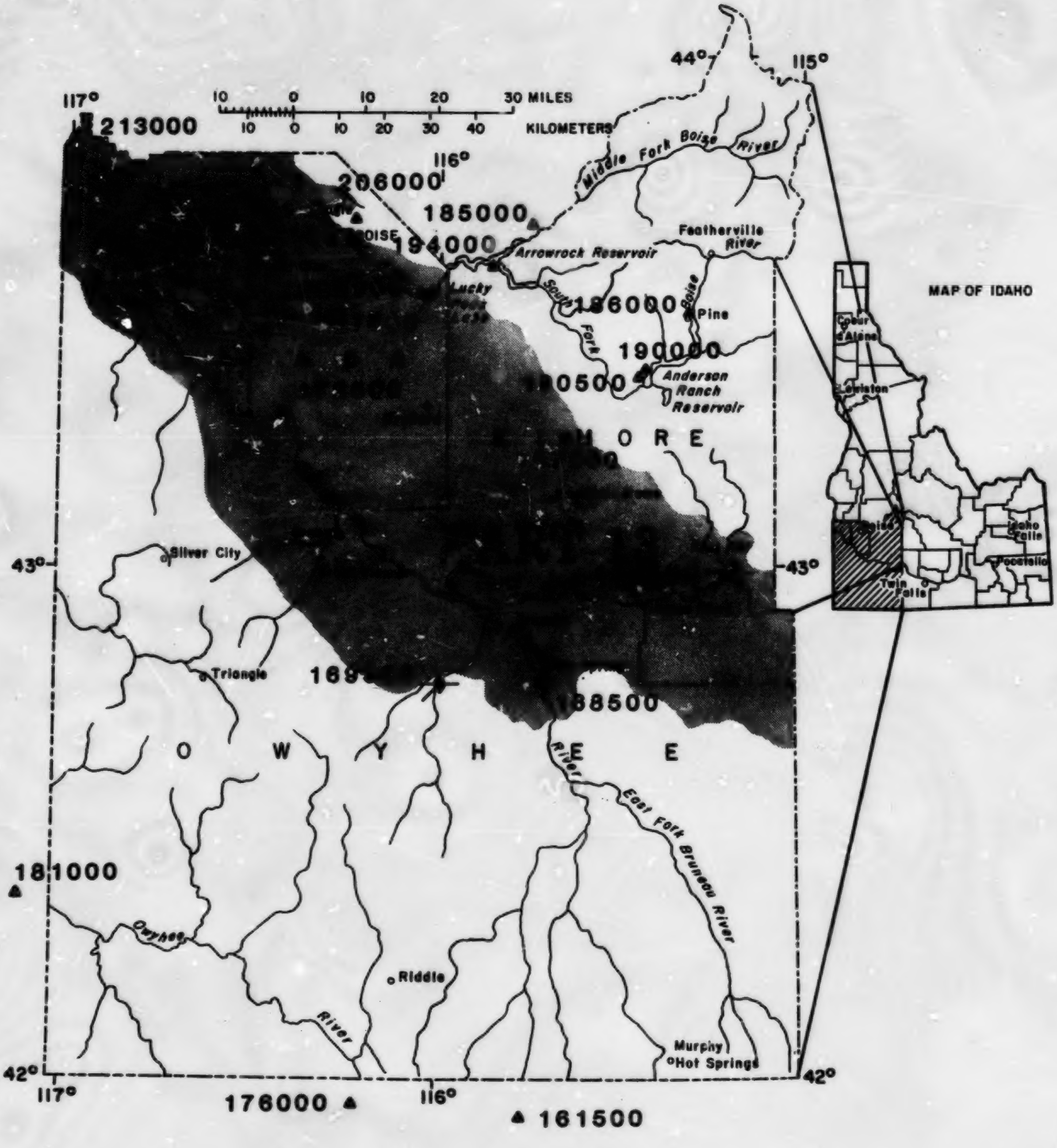

117°
213000
10 0 10 20 30 MILES
10 0 10 20 30 40 KILOMETERS
116°
206000
185000
BOISE
194000
Arrowrock Reservoir
Middle Fork Boise River
Featherville River
44°
115°
South Fork Boise
186000
Pine
190000
190500
Anderson Ranch Reservoir
O R E
Silver City
Triangle
43°
169
188500
O W Y H E E
River
East Fork Bruneau River
181000
Owyhee River
Riddle
Murphy Hot Springs
42°
117°
176000
116°
161500
MAP OF IDAHO
Coeur d'Alene
Lewiston
Boise
Twin Falls
Idaho Falls
Pocatello

Figure 9. -- Location of surface-water and water-quality stations in southwest Idaho.

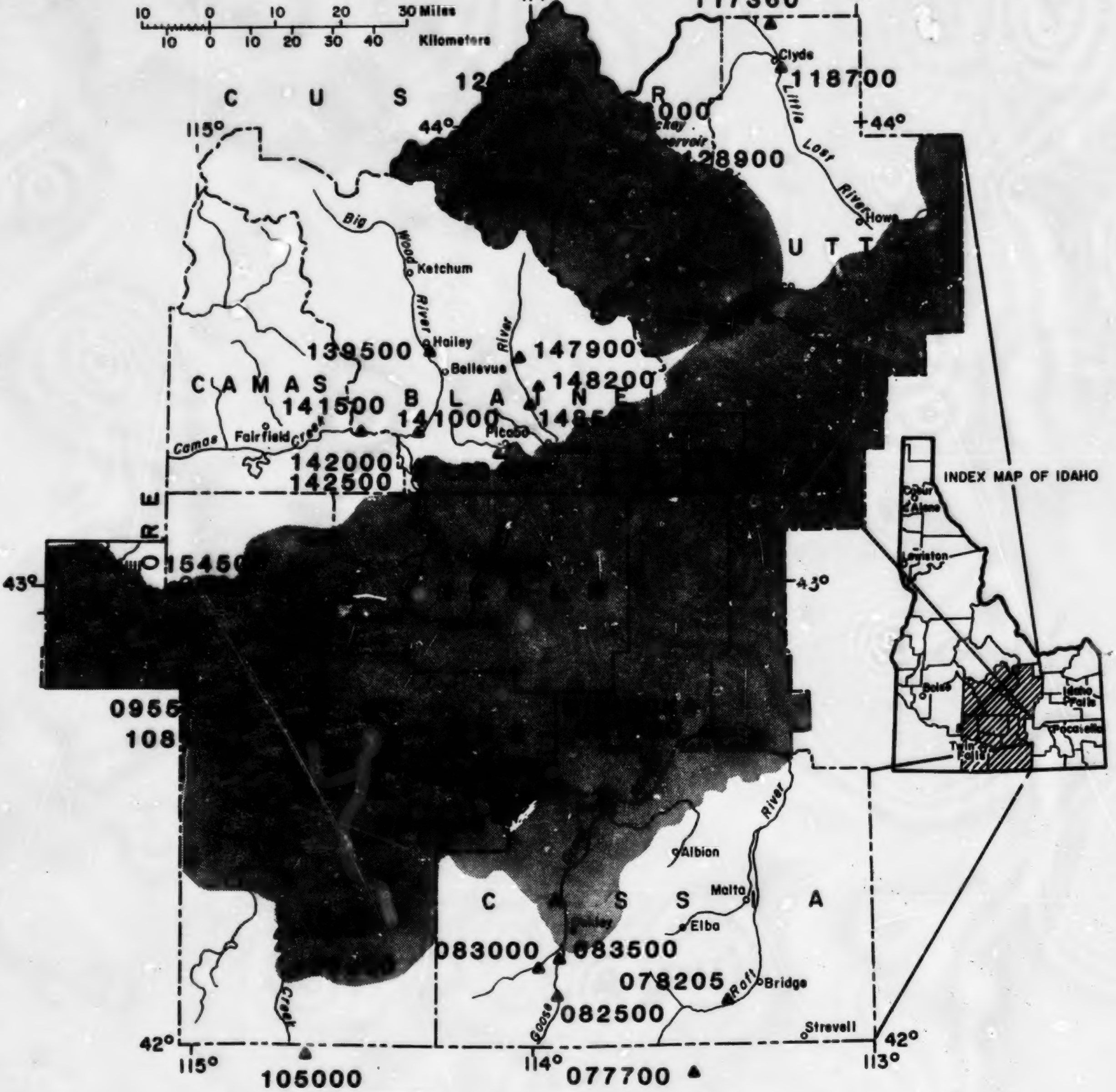

10 0 10 20 30 Miles
10 0 10 20 30 40 Kilometers
114°
113°
115°
44°
+44°
43°
43°
42°
42°
115°
114°
113°
117360
118700
128900
139500
147900
148200
141500
141000
142000
142500
083000
083500
078205
082500
105000
077700
C U S
B U T T
CAMAS
B L A I N E
C A S S I A
Clyde
Little Lost River
Howe
Big Wood River
Ketchum
Hailey
Bellevue
River
Picabo
Fairfield
Camas Cr
Albion
Malta
Elba
Raft River
Bridge
Goose
Creek
Strevell
INDEX MAP OF IDAHO
Coeur d'Alene
Lewiston
Boise
Idaho Falls
Pocatello
Twin Falls

Figure 10. -- Location of surface-water and water-quality stations in south-central Idaho.

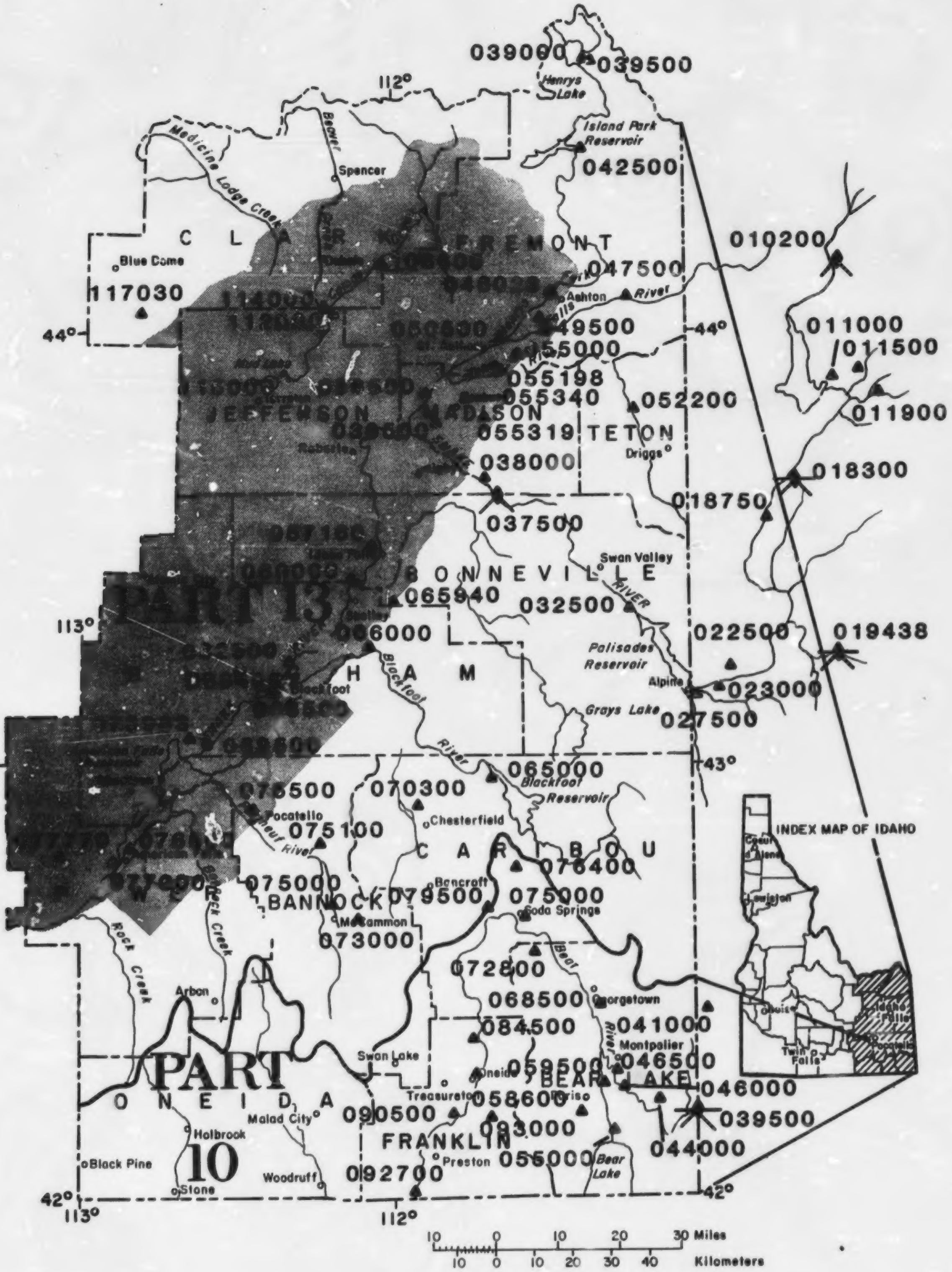

039000
039500
Henrys Lake
Island Park Reservoir
042500
112°
Beaver
Medicine Lodge Creek
Spencer
C L A R K
F R E M O N T
Blue Dome
117030
047500
Ashton
River
010200
44°
049500
055000
011000
011500
055198
055340
052200
011900
JEFFERSON
MADISON
055319
TETON
Driggs
Roberts
038000
018300
018750
037500
Swan Valley
B O N N E V I L L E
RIVER
PART 13
065940
032500
113°
066000
022500
019438
Palisades Reservoir
Blackfoot
Alpine
023000
Grays Lake
027500
B I N G H A M
Blackfoot
River
43°
065000
Blackfoot Reservoir
075500
070300
Pocatello
Chesterfield
075100
INDEX MAP OF IDAHO
Coeur d'Alene
Lewiston
Boise
Idaho Falls
Pocatello
Twin Falls
C A R I B O U
076400
075000
079500
075000
BANNOCK
Bancroft
Soda Springs
McCammon
073000
Rock Creek
072800
068500
Georgetown
Arbon
041000
084500
Montpelier
046500
059500
BEAR LAKE
Swan Lake
PART
Oneida
046000
O N E I D A
Treasureton
058600
039500
Malad City
090500
093000
Holbrook
FRANKLIN
044000
10
Black Pine
Preston
055000
Bear Lake
Woodruff
092700
Stone
42°
113°
112°
42°
10 0 10 20 30 Miles
10 0 10 20 30 40 Kilometers

Figure 11. -- Location of surface-water and water-quality stations in southeast Idaho.

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE1/4 NE1/4 sec.15, T.14 S., R.46 E., Bear Lake County, Idaho, Hydrologic Unit 16010102, on left bank 0.2 mi west of Wyoming-Idaho State line, 0.5 mi west of Border, and 2.1 mi upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WDR ID-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft National Geodetic Vertical Datum of 1929, unadjusted.

REMARKS.--Records fair. Natural flow of stream affected by regulation by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--47 years, 448 ft3/s, 324,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,580 ft3/s June 7, 1983, gage height, 9.69 ft; minimum, 24 ft3/s Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,430 ft3/s May 31, gage height, 9.51 ft; minimum daily, 310 ft3/s Jan. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	584	687	400	350	370	400	1290	1380	4390	1640	694	477
2	596	684	400	350	380	410	1220	1400	4340	1590	661	466
3	644	684	390	350	380	420	1190	1440	4150	1530	667	455
4	641	684	380	360	390	430	1190	1490	3980	1520	661	455
5	635	680	380	370	390	440	1210	1530	3910	1490	638	455
6	622	690	390	360	390	410	1260	1540	3850	1460	622	474
7	609	687	400	360	380	400	1330	1490	3910	1450	600	470
8	600	707	390	360	390	420	1420	1440	3950	1410	581	462
9	600	694	380	360	380	420	1480	1460	3890	1400	566	448
10	625	697	380	360	390	440	1510	1570	3820	1410	556	434
11	667	704	380	360	390	420	1520	1690	3740	1390	547	437
12	667	714	380	350	380	430	1520	1800	3600	1380	544	515
13	651	748	390	350	390	450	1520	1950	3470	1400	535	532
14	657	745	380	340	390	460	1520	2290	3360	1450	529	500
15	748	728	380	330	390	480	1510	2770	3260	1510	526	492
16	794	711	380	320	390	490	1510	3100	3200	1500	526	462
17	762	721	380	320	390	510	1550	3350	3140	1470	541	452
18	738	738	380	310	390	540	1660	3260	3040	1300	550	437
19	717	731	390	310	380	560	1770	3200	2900	1120	541	423
20	711	734	360	320	380	570	1840	3210	2720	1050	600	416
21	700	734	340	330	390	590	1820	3320	2500	969	584	441
22	690	690	340	340	390	620	1750	3620	2350	1000	578	466
23	667	500	330	350	380	640	1690	3860	2200	1070	559	496
24	697	500	320	370	390	680	1650	4000	2030	954	566	572
25	704	600	320	390	390	760	1640	4230	1850	900	556	572
26	700	500	330	400	390	870	1620	4260	1750	863	553	559
27	694	526	340	400	410	880	1570	4230	1740	801	544	547
28	694	572	330	390	400	920	1480	4260	1710	790	529	535
29	687	562	340	390	410	1000	1430	4300	1660	755	515	506
30	694	450	350	380	---	1100	1400	4300	1640	731	492	496
31	687	---	360	370	---	1370	---	4360	---	707	489	---
TOTAL	20892	19792	11370	11000	11250	18530	45070	86100	92080	38040	17640	14452
MEAN	674	660	367	355	388	598	1502	2777	3069	1227	569	482
MAX	794	748	400	400	410	1370	1840	4360	4390	1640	694	572
MIN	584	450	320	310	370	400	1190	1380	1640	707	489	416
AC-FT	41440	39260	22550	21820	22310	36750	89400	170800	182600	75450	34990	28670

CAL YR 1983 TOTAL 380170 MEAN 1042 MAX 4560 MIN 270 AC-FT 754100
WTR YR 1984 TOTAL 386216 MEAN 1055 MAX 4390 MIN 310 AC-FT 766100

10039500 BEAR RIVER AT BORDER, WY--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1965 to September 1976, January 1978 to September 1981 (discontinued).
WATER TEMPERATURES: October 1965 to September 1976, January 1978 to September 1981 (discontinued).
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,580 micromho/cm Dec. 27, 1975; minimum daily, 312 micromho/cm Apr. 3, 1969.
WATER TEMPERATURES: Maximum, 23.5°C Aug. 14, 1980; minimum, 0.0°C on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
OCT											
25...	0820	743	--	--	4.5	9.0	--	--	--	--	230
NOV											
10...	1000	700	510	8.0	-3.0	2.0	9.0	81	140	--	240
DEC											
06...	1550	E600	--	--	1.0	.0	--	--	--	--	290
JAN											
19...	1100	255	730	8.0	-15.0	.0	7.9	67	75	22	320
FEB											
28...	1415	E350	--	--	-1.5	.0	--	--	--	--	300
MAR											
06...	1100	239	550	8.1	2.0	.0	7.7	66	250	140	270
APR											
09...	1630	1600	--	--	.5	4.0	--	--	--	--	310
MAY											
24...	1000	5120	600	8.0	8.5	9.0	8.7	94	--	--	280
JUN											
08...	1230	4080	--	--	9.0	11.0	--	--	--	--	230
JUL											
31...	1140	775	560	7.9	20.0	19.0	5.3	71	1200	500	280
SEP											
10...	1700	303	--	--	25.0	20.0	--	--	--	--	260
27...	1130	552	520	7.8	9.5	8.5	--	--	25	75	240

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT											
25...	55	22	18	15	.5	.80	200	43	20	.20	3.6
NOV											
10...	57	23	20	15	.6	1.9	199	38	22	.20	4.2
DEC											
06...	65	32	34	20	.9	1.9	240	75	36	.10	7.8
JAN											
19...	76	31	31	17	.8	2.0	266	67	36	.20	9.6
FEB											
28...	72	29	27	16	.7	1.8	240	89	28	.20	8.8
MAR											
06...	65	25	23	16	.6	2.1	236	58	27	.20	7.6
APR											
09...	59	40	49	25	1	4.1	270	80	54	.60	9.9
MAY											
24...	60	31	30	19	.8	3.9	225	53	35	.20	9.2
JUN											
08...	52	24	23	18	.7	2.1	200	32	21	.10	4.9
JUL											
31...	64	28	26	17	.7	2.2	224	58	24	.20	8.7
SEP											
10...	62	25	24	17	.7	1.2	200	64	25	.10	7.1
27...	55	25	27	19	.8	2.2	201	72	31	.20	5.9

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT 25...	--	280	.38	567	.00	--	--	.000	--	--
NOV 10...	291	290	.40	530	<.10	.000	.40	.000	.000	.000
DEC 06...	--	400	.54	--	.20	--	--	.090	--	--
JAN 19...	406	410	.55	280	.24	.000	.20	.000	.000	.000
FEB 28...	--	400	.54	--	.00	--	--	.160	--	--
MAR 06...	347	350	.47	224	.21	.120	.90	.000	.000	<.000
APR 09...	--	460	.62	1980	.30	--	--	.080	--	--
MAY 24...	357	360	.49	4940	<.10	.000	1.0	.120	.000	.000
JUN 08...	--	280	.38	3070	.20	--	--	.010	--	--
JUL 31...	345	350	.47	722	<.10	.160	.80	.600	.440	<.000
SEP 10...	--	330	.45	269	.00	--	--	.030	--	--
27...	363	340	.49	541	<.10	<.000	.50	.120	.000	.000

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV 10...	1	20	130	.6	<1	<1	<3	2	18	11
MAR 06...	<1	10	130	<.5	1	<1	<3	7	20	5
MAY 24...	1	20	140	<1.0	<1	<1	<3	3	31	4
JUL 31...	<1	20	140	1.0	<1	<1	<3	5	27	5

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 10...	18	7	<.1	<10	2	2	<1	390	<6	11
MAR 06...	20	11	.3	<10	1	<1	<1	430	<6	39
MAY 24...	26	12	.8	<10	2	<1	<1	440	<6	42
JUL 31...	26	4	<.1	<10	3	<1	<1	490	<6	11

DATE	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
SEP 27...	512	95

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE1/4 NW1/4 sec.19, T.28 N., R.119 W., Lincoln County, Wyoming, Hydrologic Unit 16010102, on right bank 1.3 mi upstream from State line, 1.5 mi downstream from Giraffe Creek, and 3.5 mi northeast of Geneva, Idaho.

DRAINAGE AREA.--113 mi2.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,280 ft, from topographic map. Prior to Aug. 23, 1957, at site 0.2 mi upstream at different datum.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--35 years, 57.5 ft3/s, 41,650 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft3/s May 15, 1984, gage height, 5.00 ft; minimum, 2.6 ft3/s Mar. 2, 1956, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)
Apr. 19	1800	177	1.36
May 15	2200	*1860	5.00

Minimum daily, 12 ft3/s Jan. 16-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	29	23	25	19	16	32	152	373	119	59	37
2	47	23	26	23	17	16	32	175	332	115	56	36
3	43	28	27	24	18	19	33	200	329	111	57	34
4	37	27	27	27	18	17	37	212	303	108	54	33
5	34	29	25	29	17	16	36	226	329	105	53	34
6	32	29	25	25	17	19	41	212	313	102	52	38
7	32	32	24	26	19	19	42	215	300	99	49	35
8	32	32	27	24	17	20	45	257	294	98	47	35
9	33	28	27	25	17	21	43	333	267	95	46	34
10	41	28	27	24	17	21	47	411	262	96	46	32
11	34	30	26	26	18	22	44	473	262	92	45	35
12	32	30	25	22	18	21	43	620	240	90	65	52
13	31	30	24	20	20	25	43	879	229	89	43	35
14	33	30	27	17	18	23	46	1200	218	85	43	32
15	32	31	27	16	17	23	53	1450	211	82	44	32
16	31	33	27	12	19	22	72	1320	206	79	45	32
17	30	30	25	12	20	22	98	976	201	77	46	31
18	30	30	25	12	19	22	133	874	194	75	42	30
19	29	28	25	13	18	22	163	868	154	74	51	30
20	28	28	25	15	17	23	150	897	177	74	52	30
21	28	27	24	18	15	24	123	850	165	78	43	40
22	28	25	23	22	19	25	137	709	160	80	41	33
23	28	24	23	25	15	25	154	674	156	76	43	47
24	30	23	23	25	17	26	161	762	149	68	41	47
25	28	25	23	26	20	26	161	630	144	67	41	40
26	28	25	25	25	17	26	145	538	140	66	40	39
27	27	24	23	22	14	26	136	487	135	65	39	39
28	27	27	23	21	14	33	138	455	131	69	38	36
29	27	26	23	20	15	27	139	424	127	67	37	34
30	27	23	25	17	---	29	134	405	124	62	36	32
31	29	---	29	18	---	31	---	436	---	60	37	---
TOTAL	986	846	779	656	512	709	2671	18321	6658	2624	1413	1073
MEAN	31.8	28.2	25.1	21.2	17.7	22.9	89.0	591	222	84.6	45.6	35.8
MAX	47	33	29	29	20	33	163	1450	373	119	59	52
MIN	27	23	23	12	14	16	32	152	124	60	36	30
AC-FT	1960	1680	1540	1300	1020	1410	5300	36340	13210	5200	2800	2130

CAL YR 1983	TOTAL	35349	MEAN	96.8	MAX	1010	MIN	13	AC-FT	70110
WTR YR 1984	TOTAL	37247	MEAN	102	MAX	1450	MIN	12	AC-FT	73880

10044000 BEAR RIVER AT HARER, ID

LOCATION.--Lat 42°11'50", long 111°10'05", in NW1/4 NW1/4 NW1/4 sec.23, T.14 S., R.45 E., Bear Lake County, Hydrologic Unit 16010102, on right bank 400 ft downstream from Sheep Creek, 0.8 mi north of Harer siding on Union Pacific (Oregon Short Line) Railroad, and 5 mi southeast of Dingle.

DRAINAGE AREA.--2,839 mi2.

PERIOD OF RECORD.--June 1913 to current year. Monthly discharge only October 1916 to December 1918, published in WSP 1314.

REVISED RECORDS.--WDR ID-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft, from topographic map. Prior to Aug. 24, 1914, staff gage at site 1,500 ft downstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power and Light Company, under general supervision of U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--71 years, 539 ft3/s, 390,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,140 ft3/s June 9, 1983; minimum daily, 26 ft3/s Aug. 21-27, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,820 ft3/s May 26; minimum daily, 338 ft3/s Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	360	770	684	445	419	415	1160	1720	4550	1970	824	569
2	409	737	713	440	399	436	1210	1720	4540	1910	789	561
3	483	737	678	338	398	455	1250	1770	4520	1840	772	554
4	536	737	656	419	390	500	1300	1850	4370	1790	795	546
5	550	736	623	411	388	509	1340	1910	4300	1770	776	552
6	569	734	565	405	382	490	1390	1950	4250	1730	749	564
7	581	750	608	391	378	679	1430	1910	4240	1700	723	560
8	602	768	561	372	391	655	1470	1840	4240	1670	697	555
9	623	762	493	364	388	659	1510	1820	4220	1650	675	543
10	631	764	547	364	392	711	1550	1910	4200	1650	660	527
11	760	770	561	412	405	726	1590	2060	4160	1620	648	528
12	792	783	503	419	418	732	1630	2210	4090	1590	644	591
13	766	807	502	339	428	718	1680	2340	4010	1600	638	645
14	757	828	529	444	458	689	1730	2500	3950	1630	629	617
15	814	816	444	353	449	714	1790	2820	3890	1680	629	596
16	926	803	434	352	419	730	1840	3420	3840	1720	635	576
17	916	799	455	352	421	738	1880	3920	3800	1690	647	563
18	866	822	513	353	422	751	2010	4150	3760	1620	662	549
19	825	806	514	355	440	704	2220	4100	3710	1410	650	530
20	808	900	505	359	464	697	2330	4010	3620	1240	711	528
21	798	790	497	442	435	684	2360	4000	3480	1180	727	549
22	789	782	488	372	418	704	2290	4060	3290	1170	709	571
23	783	785	479	382	428	738	2200	4240	3080	1290	654	621
24	792	787	471	405	426	754	2120	4380	2820	1230	681	695
25	800	790	462	422	438	771	2090	4520	2470	1120	679	746
26	796	793	453	429	439	865	2070	4820	2240	1030	674	723
27	790	796	445	427	432	917	2020	4300	2140	972	667	700
28	786	808	437	435	418	970	1910	4710	2090	933	649	679
29	789	748	428	437	415	1020	1810	4650	2060	944	629	644
30	790	695	428	419	---	1070	1760	4580	1980	906	602	621
31	799	---	442	419	---	1110	---	4550	---	857	594	---
TOTAL	22339	23305	16146	12313	12089	22373	52930	99270	107890	45112	21249	17803
MEAN	721	777	521	397	417	722	1764	3202	3596	1455	685	593
MAX	926	928	713	445	464	1110	2360	4820	4550	1970	824	746
MIN	360	695	428	338	378	415	1160	1720	1980	857	594	527
AC-FT	44310	46230	32030	24420	23980	44380	105000	196900	214000	89480	42150	35310

CAL YR 1983 TOTAL	442039	MEAN	1211	MAX	5140	MIN	287	AC-FT 876900
WTR YR 1984 TOTAL	452817	MEAN	1237	MAX	4820	MIN	338	AC-FT 898200

10046000 RAINBOW INLET CANAL NEAR DINGLE, ID

LOCATION.--Lat 42°13'48", long 111°17'43", in NW1/4 SW1/4 SE1/4 sec.3, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 1.5 mi west of Dingle and 1.8 mi downstream from headworks at Stewart Dam.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only prior to October 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,922.0 ft National Geodetic Vertical Datum of 1929, by topographic survey. Prior to Oct. 1, 1923, at site 300 ft downstream at different datum; Oct. 1, 1923 to Oct. 27, 1944, at site 0.5 mi downstream at different datum.

REMARKS.--Records good. Canal diverts from Bear River at Stewart Dam in NE1/4 sec.34, T.13 S., R.44 E., for storage in Bear Lake. At times, flow in canal is augmented by surplus water from Black Otter Slough entering at the station and by seepage and surplus water from irrigation.

COOPERATION.--Records collected by Utah Power and Light Company, under general supervision of U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--62 years, 365 ft3/s, 265,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,950 ft3/s May 27, 1984; no flow Apr. 28, 1977, and Oct. 1, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,950 ft3/s May 27; minimum daily, 271 ft3/s Jan. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	651	784	450	351	326	336	1430	1720	4670	1550	769	543
2	672	755	417	354	323	357	1360	1710	4660	1530	746	529
3	698	750	394	350	318	377	1290	1740	4660	1540	724	525
4	730	748	359	369	311	422	1270	1730	4540	1560	713	521
5	719	747	403	370	309	425	1300	1830	4320	1540	695	516
6	711	747	432	364	303	406	1350	1860	4210	1530	689	523
7	695	749	444	349	306	411	1440	1860	4170	1520	667	527
8	653	765	472	332	308	410	1510	1830	4160	1510	643	522
9	655	762	453	326	314	397	1600	1800	4170	1500	619	517
10	662	754	430	324	326	425	1690	1850	4160	1490	601	503
11	689	756	465	331	338	455	1740	1960	4120	1490	591	499
12	732	760	521	335	350	506	1740	2090	3970	1490	575	518
13	734	770	455	359	379	698	1740	2220	3830	1500	554	568
14	723	775	459	362	367	463	1730	2340	3650	1500	538	595
15	731	781	435	306	339	486	1730	2500	3470	1500	536	564
16	803	774	405	271	333	506	1740	2720	3320	1500	549	555
17	842	765	370	272	344	523	1790	3200	3180	1500	570	539
18	826	781	345	273	344	537	1850	3840	3070	1480	579	521
19	796	803	370	279	362	587	1990	4040	3010	1370	608	501
20	780	903	374	277	386	620	2150	3930	2920	1210	637	493
21	769	917	397	255	355	622	2200	3900	2830	1150	672	491
22	758	780	398	295	336	698	2170	3850	2700	1120	667	497
23	749	718	394	305	348	712	2090	4040	2550	1140	658	535
24	744	706	405	329	356	735	2010	4460	2380	1140	637	601
25	752	690	373	349	359	756	1980	4710	2180	1050	643	645
26	753	657	395	354	362	819	1960	4920	1930	982	638	653
27	748	630	387	353	359	880	1940	4950	1730	935	625	636
28	738	537	344	364	342	864	1890	4830	1640	903	602	620
29	739	524	339	360	335	904	1790	4770	1620	893	584	590
30	740	494	335	347	---	1030	1730	4710	1580	830	572	556
31	744	---	337	345	---	1230	---	4690	---	803	540	---
TOTAL	22752	21944	12534	10245	9840	18496	52190	96570	99400	40759	19461	16392
MEAN	734	731	404	330	339	597	1740	3118	3313	1315	627	546
MAX	842	917	521	370	386	1230	2200	4950	4670	1560	769	653
MIN	651	484	335	271	303	336	1270	1710	1580	803	536	433
AC-FT	45130	43530	24860	20320	19520	36690	103500	191700	197200	80850	38560	32510

CAL YR 1983	TOTAL	370490	MEAN	1015	MAX	4620	MIN	259	AC-FT 734900
WTR YR 1984	TOTAL	420663	MEAN	1149	MAX	4950	MIN	271	AC-FT 834400

10046500 BEAR RIVER BELOW STEWART DAM, NEAR MONTPELIER, ID

LOCATION.--Lat 42°15'14", long 111°17'35", in NW1/4 NW1/4 NE1/4 sec.34, T.13 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 300 ft downstream from Stewart Dam and 4.5 mi south of Montpelier.

DRAINAGE AREA.--2,853 mi2.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

REVISED RECORDS.--WDR ID-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft, from topographic map.

REMARKS.--Records good. Water diverted at Stewart Dam through Rainbow inlet canal (see sta 10046000) for storage in Bear Lake.

COOPERATION.--Records collected by Utah Power and Light Company, under general supervision of U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--62 years, 45.1 ft3/s, 32,670 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,050 ft3/s June 3, 1923; no flow July 15, 1956, July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 70 ft3/s May 27; minimum daily, 1.5 ft3/s Feb. 26 to Mar. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	5.1	6.6	3.6	3.2	1.5	11	3.6	56	15	6.4	7.6
2	11	5.5	6.5	3.8	3.2	1.5	6.7	3.7	53	15	6.6	7.5
3	12	4.8	6.3	3.8	3.0	1.5	5.6	3.5	57	16	6.6	7.4
4	14	6.0	6.0	3.7	3.0	1.6	4.5	3.7	55	17	6.8	7.1
5	15	5.6	5.8	3.7	3.0	1.6	4.8	3.9	48	16	7.2	6.1
6	14	4.2	5.5	3.4	3.0	1.6	5.3	4.3	45	15	7.4	3.7
7	13	4.1	5.3	3.4	3.0	1.6	6.0	4.3	44	14	7.6	3.8
8	12	11	5.1	3.5	3.0	1.6	6.6	4.4	44	13	7.8	4.1
9	10	11	5.1	3.6	3.0	1.6	6.7	4.8	45	13	8.0	4.4
10	9.3	11	5.2	3.6	3.0	1.7	6.8	5.1	45	13	8.2	4.8
11	10	10	5.2	3.7	3.0	1.7	6.9	5.2	42	12	8.4	5.2
12	13	10	5.3	3.8	3.0	1.7	7.0	5.7	37	12	8.6	6.3
13	12	9.9	5.3	3.9	3.0	1.7	7.5	6.1	34	12	8.8	7.1
14	10	9.7	5.4	4.0	2.9	1.7	7.9	6.2	30	11	9.1	8.2
15	9.2	9.4	5.4	4.0	2.8	1.7	7.7	5.9	27	11	9.3	7.9
16	9.0	9.1	5.5	3.9	2.7	1.9	7.8	5.5	24	11	9.2	7.4
17	9.2	8.8	5.5	3.8	2.6	2.2	7.9	11	22	10	9.0	7.4
18	9.0	8.5	5.4	3.7	2.3	2.5	8.2	21	20	10	8.9	7.9
19	8.7	8.2	5.4	3.6	2.2	2.8	8.4	29	17	9.0	8.8	8.3
20	8.4	7.9	5.3	3.6	2.1	3.1	8.5	28	15	9.8	8.6	8.4
21	7.9	7.6	5.2	3.6	1.9	3.4	8.1	25	15	9.7	8.5	8.4
22	7.0	7.4	4.9	3.5	1.8	4.1	7.6	24	14	8.5	8.4	8.5
23	6.8	8.0	3.8	3.5	1.7	3.4	7.1	28	14	8.0	8.3	8.2
24	6.6	7.6	3.5	3.5	1.7	4.0	6.5	42	15	7.9	8.2	7.6
25	6.4	7.3	3.5	3.0	1.6	4.0	5.6	54	15	7.8	8.1	8.2
26	6.1	7.8	3.9	2.3	1.5	6.9	5.5	64	16	7.1	8.0	9.6
27	5.9	7.7	4.1	2.4	1.5	6.7	6.3	70	17	7.0	8.0	8.6
28	5.7	6.8	4.0	3.1	1.5	6.3	5.4	67	18	6.1	7.9	9.6
29	5.5	6.5	3.6	3.1	1.5	6.0	5.1	62	16	4.8	7.8	8.2
30	5.3	6.7	3.2	3.2	---	7.2	4.1	62	16	5.9	7.7	7.6
31	5.1	---	3.4	3.2	---	10	---	59	---	5.8	7.7	---
TOTAL	285.5	233.2	154.2	108.5	71.7	98.8	203.1	721.9	916	333.4	249.9	213.1
MEAN	9.21	7.77	4.97	3.50	2.47	3.19	6.77	23.3	30.5	10.8	8.06	7.10
MAX	15	11	6.6	4.0	3.2	10	11	70	57	17	9.3	9.6
MIN	5.1	4.1	3.2	2.3	1.5	1.5	4.1	3.5	14	4.8	6.4	3.7
AC-FT	566	463	306	215	142	196	403	1430	1820	661	496	423

CAL YR 1983	TOTAL	44107.0	MEAN	121	MAX	1050	MIN	1.2	AC-FT 87490
WTR YR 1984	TOTAL	3589.3	MEAN	9.81	MAX	70	MIN	1.5	AC-FT 7120

10055500 BEAR LAKE AT LIFTON, NEAR ST. CHARLES, ID

LOCATION.--Lat 42°07'15", long 111°18'52", in NE1/4 sec.16, T.15 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, in Lifton pumping plant of Utah Power and Light Company, 3.5 mi east of St. Charles.

DRAINAGE AREA.--435 mi2, approximately (does not include Mud Lake drainage).

PERIOD OF RECORD.--October 1903 to June 1906, elevations only, published as "at Fish Haven," January 1921 to current year. Monthly contents only January 1921 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft, Utah Power and Light Company datum.

REMARKS.--Outflow regulated by gates and pumps at the north end of Bear Lake and by gates in dike at north end of Mud Lake, a shallow interconnected lake. Principal inflow to Bear Lake is from Bear River through Rainbow inlet canal (see sta 10046000) and Dingle inlet canals into Mud Lake, from which the inflow can enter into Bear Lake either through the pumping plant or an opening in the dividing causeway. The inflow can be routed directly into the outlet canal (see sta 10059500). Usable capacity of Bear Lake is 1,421,000 acre-ft between elevation 5,902.00 ft, lower limit of pumps, and 5,923.65 ft, upper limit of storage with existing facilities. Water is used for irrigation and power development. Figures herein given represent usable contents.

COOPERATION.--Records furnished by Utah Power and Light Company, under general supervision of U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,423,000 acre-ft June 10, 1923, elevation, 5,923.68 ft; no usable contents Nov. 9-19, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,398,000 acre-ft June 30 to July 6, elevation, 5,923.32 ft; minimum, 1,054,000 acre-ft Mar. 25-27, elevation, 5,918.40 ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

5,918	1,026,000	5,921	1,235,000
5,919	1,095,000	5,922	1,305,000
5,920	1,165,000	5,923	1,375,000
		5,924	1,446,000

RESERVOIR STORAGE (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1319000	1246000	1174000	1135000	1110000	1077000	1057000	1115000	1284000	1398000	1390000	1341000
2	1317000	1243000	1171000	1135000	1108000	1076000	1058000	1118000	1293000	1398000	1390000	1338000
3	1315000	1240000	1168000	1134000	1108000	1074000	1060000	1122000	1302000	1398000	1390000	1334000
4	1311000	1238000	1165000	1134000	1106000	1074000	1064000	1124000	1311000	1398000	1390000	1331000
5	1308000	1235000	1161000	1133000	1105000	1072000	1066000	1126000	1323000	1398000	1389000	1328000
6	1306000	1232000	1159000	1131000	1104000	1072000	1068000	1127000	1331000	1398000	1388000	1327000
7	1305000	1229000	1155000	1131000	1102000	1070000	1071000	1130000	1338000	1397000	1388000	1325000
8	1303000	1226000	1152000	1130000	1102000	1069000	1071000	1133000	1345000	1397000	1387000	1322000
9	1300000	1222000	1150000	1129000	1100000	1067000	1073000	1136000	1351000	1396000	1387000	1319000
10	1300000	1220000	1146000	1129000	1099000	1066000	1074000	1138000	1358000	1396000	1387000	1316000
11	1295000	1217000	1143000	1129000	1097000	1065000	1076000	1140000	1363000	1395000	1387000	1312000
12	1294000	1213000	1141000	1128000	1095000	1063000	1076000	1143000	1368000	1394000	1386000	1310000
13	1290000	1210000	1139000	1128000	1094000	1062000	1076000	1145000	1372000	1394000	1385000	1308000
14	1287000	1208000	1137000	1127000	1092000	1060000	1076000	1150000	1375000	1394000	1384000	1305000
15	1285000	1205000	1148000	1127000	1092000	1060000	1076000	1152000	1378000	1393000	1383000	1303000
16	1282000	1202000	1147000	1127000	1091000	1060000	1077000	1155000	1380000	1393000	1382000	1301000
17	1278000	1200000	1145000	1126000	1090000	1059000	1077000	1159000	1382000	1392000	1380000	1299000
18	1276000	1197000	1145000	1124000	1089000	1059000	1077000	1164000	1382000	1392000	1378000	1296000
19	1273000	1194000	1143000	1124000	1088000	1058000	1077000	1169000	1383000	1392000	1377000	1294000
20	1271000	1193000	1143000	1122000	1088000	1055000	1078000	1175000	1384000	1392000	1375000	1292000
21	1269000	1192000	1141000	1122000	1087000	1055000	1081000	1182000	1385000	1392000	1373000	1290000
22	1267000	1190000	1140000	1120000	1086000	1057000	1085000	1191000	1386000	1392000	1370000	1287000
23	1265000	1189000	1139000	1119000	1085000	1057000	1089000	1199000	1387000	1392000	1368000	1286000
24	1263000	1187000	1138000	1118000	1084000	1056000	1092000	1208000	1390000	1392000	1364000	1285000
25	1261000	1186000	1138000	1117000	1083000	1054000	1095000	1217000	1392000	1392000	1361000	1284000
26	1259000	1184000	1137000	1115000	1082000	1054000	1098000	1226000	1394000	1392000	1359000	1283000
27	1257000	1182000	1137000	1114000	1081000	1054000	1101000	1237000	1396000	1391000	1356000	1282000
28	1254000	1180000	1136000	1113000	1079000	1055000	1104000	1246000	1396000	1391000	1353000	1282000
29	1252000	1178000	1136000	1112000	1078000	1055000	1108000	1256000	1397000	1391000	1349000	1281000
30	1250000	1177000	1136000	1111000	---	1056000	1111000	1265000	1398000	1391000	1346000	1280000
31	1249000	---	1136000	1110000	---	1056000	---	1275000	---	1390000	1346000	---
MAX	1319000	1246000	1174000	1135000	1110000	1077000	1111000	1275000	1398000	1398000	1390000	1341000
MIN	1249000	1177000	1136000	1110000	1078000	1054000	1057000	1115000	1284000	1390000	1346000	1280000
(†)	5921.20	5920.17	5919.58	5919.22	5918.75	5918.44	5919.23	5921.57	5923.32	5923.21	5922.59	5921.65
(‡)	-74000	-72000	-41000	-26000	-32000	-22000	+55000	+164000	+123000	-8000	-44000	-66000

CAL YR 1983....... ‡ -41000
WTR YR 1984....... ‡ -43000

(†) Elevation, in feet, at end of month.
(‡) Change in contents, in acre-feet.

10055600 BLOOMINGTON CREEK AT BLOOMINGTON, ID

LOCATION.--Lat 42°34'08", long 111°25'48", in SE1/4 SW1/4 SE1/4 sec.21, T.14 S., R.43 E., Bear Lake County, Hydrologic Unit 16010201, on left bank 1 mi west of Bloomington.

DRAINAGE AREA.--24.0 mi2.

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR ID-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete flume. Altitude of gage is 6,070 ft, from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--24 years, 30.5 ft3/s, 22,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 248 ft3/s June 11, 1971, gage height, 4.66 ft; minimum, 9.4 ft3/s Jan. 27, 1961, Feb. 26, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 203 ft3/s May 31, gage height, 4.40 ft; minimum daily, 18 ft3/s many days in February and March.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	26	23	21	19	18	20	32	179	120	54	37
2	33	25	23	21	19	18	20	38	166	115	53	36
3	31	25	23	21	19	18	21	43	167	111	52	36
4	30	25	23	21	19	18	21	42	153	107	52	36
5	29	25	23	21	19	18	22	43	175	103	51	35
6	29	25	23	21	19	18	23	39	149	100	49	36
7	28	26	21	21	19	18	24	38	143	97	48	36
8	28	26	22	21	19	18	25	41	131	94	48	35
9	29	24	23	21	19	18	24	48	121	92	47	35
10	30	25	23	21	19	18	23	51	118	89	47	35
11	29	26	23	21	19	19	22	55	114	86	45	34
12	28	25	23	21	19	18	22	63	113	83	46	35
13	27	26	23	21	19	18	23	72	120	80	45	34
14	28	25	23	21	19	19	24	83	133	77	44	34
15	27	24	23	21	18	19	26	89	152	75	43	33
16	27	24	22	20	19	19	29	101	156	73	46	33
17	27	25	22	20	19	19	34	90	165	71	44	32
18	27	25	22	19	19	18	39	88	157	69	43	32
19	27	24	22	19	19	18	40	97	160	67	43	32
20	27	24	22	20	18	19	36	112	160	67	42	32
21	26	24	22	20	19	19	33	120	158	65	41	32
22	26	23	22	20	19	19	35	110	151	66	40	36
23	26	23	21	20	19	19	42	116	145	63	40	33
24	27	24	21	20	19	19	41	139	141	62	40	32
25	26	24	22	20	19	19	37	133	139	61	40	34
26	26	23	22	20	18	19	33	123	138	59	40	36
27	26	23	22	20	18	19	32	130	135	58	39	35
28	26	23	21	20	19	18	31	132	132	59	38	33
29	25	23	21	19	18	19	31	137	128	58	39	33
30	25	22	21	19	---	20	30	149	124	56	37	33
31	26	---	21	19	---	20	---	194	---	55	37	---
TOTAL	857	732	688	630	546	576	864	2745	4323	2441	1373	1025
MEAN	27.6	24.4	22.2	20.3	18.8	18.6	28.8	88.6	144	78.7	44.3	34.2
MAX	33	26	23	21	19	20	42	194	179	120	54	37
MIN	25	22	21	19	18	18	20	32	113	55	37	32
AC-FT	1700	1450	1370	1250	1080	1140	1710	5450	8570	4840	2720	2030

CAL YR 1983	TOTAL	14716	MEAN	40.3	MAX	151	MIN	17	AC-FT	29190
WTR YR 1984	TOTAL	16804	MEAN	45.9	MAX	194	MIN	18	AC-FT	33330

10059500 BEAR LAKE OUTLET CANAL NEAR PARIS, ID

LOCATION.--Lat 42°13'00", long 111°20'35", in SW1/4 NW1/4 SW1/4 sec.8, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 2,000 ft downstream from headgates (at dike) and 3 mi southeast of Paris.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 5,912.6 ft National Geodetic Vertical Datum of 1929, unadjusted.

REMARKS.--Records good. Flow regulated by Bear Lake (see sta 10055500).

COOPERATION.--Records collected by Utah Power and Light Company, under general supervision of U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--62 years, 402 ft3/s, 291,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,600 ft3/s June 14, 1984; minimum daily, 1.0 ft3/s for many days in 1937, 1954, 1959, 1961, 1964, 1977-78.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,600 ft3/s June 14; minimum daily, 588 ft3/s Mar. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1570	1910	1360	974	1150	1060	713	1080	1120	1660	1690	1730
2	1590	1940	1370	992	1150	1050	819	1040	1240	1660	1660	1730
3	1550	1970	1980	1020	1140	1060	963	1030	1290	1560	1630	1730
4	1590	1990	1990	1020	1130	1060	1030	998	1460	1670	1600	1730
5	1650	2010	1890	967	1120	1080	1020	1000	1750	1650	1550	1720
6	1700	2030	1900	894	1110	1090	1030	999	1900	1680	1570	1730
7	1760	2050	1870	829	1110	1090	1010	983	2040	1690	1660	1740
8	1760	2060	1860	793	1080	1100	965	1020	2170	1700	1620	1750
9	1750	2080	1850	771	1090	1120	963	1080	2220	1710	1590	1750
10	1750	2100	1930	752	1110	1110	1010	1080	2280	1730	1640	1740
11	1840	2100	1820	749	1140	1120	1100	1070	2380	1730	1670	1740
12	1970	2100	1760	724	1160	1120	1110	1090	2500	1690	1680	1740
13	2030	2090	1620	733	1160	1120	1120	1100	2570	1540	1650	1730
14	2060	2090	1460	820	1140	1120	1130	1100	2600	1410	1670	1730
15	2080	1980	1370	995	1130	1110	1150	1110	2560	1400	1740	1720
16	2110	1900	1370	917	1130	1120	1170	1150	2530	1430	1770	1720
17	2120	1890	1330	941	1130	1130	1090	1150	2500	1500	1760	1660
18	2120	1890	1280	959	1130	1150	858	1130	2400	1540	1740	1500
19	2120	1890	1240	989	1130	1150	708	1110	2220	1540	1720	1310
20	2120	1880	1220	1000	1190	1160	728	1070	2120	1520	1700	1340
21	2110	1880	1330	1010	1200	1170	814	1050	1960	1510	1670	1380
22	2100	1890	1420	1030	1170	1170	830	1040	1900	1510	1660	1370
23	2080	1880	1260	1030	1160	1150	836	1030	1910	1550	1660	1390
24	2070	1860	1080	1050	1150	905	813	1050	1930	1640	1670	1430
25	2040	1880	1030	1090	1130	588	808	1050	1920	1660	1690	1420
26	2020	1870	997	1130	1100	717	820	1060	1930	1670	1710	1400
27	1990	1890	924	1140	1090	703	815	1060	1920	1660	1720	1390
28	1950	1880	931	1140	1080	746	812	1060	1790	1660	1720	1370
29	1920	1880	929	1150	1070	805	819	1040	1670	1650	1730	1370
30	1890	1860	935	1150	---	777	964	1040	1670	1670	1730	1360
31	1890	---	960	1160	---	723	---	1060	---	1720	1730	---
TOTAL	59300	58700	44946	29915	32780	31574	28073	32930	60450	50040	52010	47420
MEAN	1913	1957	1450	965	1130	1019	936	1062	2015	1614	1678	1581
MAX	2120	2100	1900	1160	1200	1170	1170	1150	2600	1730	1770	1750
MIN	1550	1860	924	724	1070	588	708	983	1120	1400	1560	1310
AC-FT	117600	116400	89150	59340	65020	62630	55680	65320	119900	99250	103200	94060

CAL YR 1983	TOTAL	485335	MEAN	1330	MAX	2120	MIN	11	AC-FT 962700
WTR YR 1984	TOTAL	529135	MEAN	1443	MAX	2600	MIN	588	AC-FT 1048000

10068500 BEAR RIVER AT PESCADERO, ID

LOCATION.--Lat 42°24'06", long 111°21'22", in SW1/4 SW1/4 SE1/4 sec.6, T.12 S., R.44 E., Bear Lake County, Hydrologic Unit 16010202, on left bank at Pescadero, 400 ft downstream from road bridge, 2 mi downstream from Bennington Creek, and 5.5 mi northwest of Montpelier.

DRAINAGE AREA.--3,705 mi2.

PERIOD OF RECORD.--October 1921 to September 1954, June 1969 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft, from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Flow regulated by Bear Lake (see sta 10055500) and diversions above station for irrigation.

AVERAGE DISCHARGE.--48 years, 635 ft3/s, 460,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,840 ft3/s June 10, 1923; minimum daily, 23 ft3/s Mar. 14-17, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,250 ft3/s June 14, 15; minimum daily, 860 ft3/s Jan. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1810	2120	2030	1150	1350	1250	1030	1460	1890	2140	1810	1830
2	1840	2130	2040	1150	1350	1250	1050	1490	1960	2100	1800	1830
3	1860	2150	2050	1200	1350	1250	1220	1490	2020	2090	1760	1820
4	1820	2160	2070	1200	1350	1250	1370	1480	2050	2070	1730	1810
5	1810	2190	2070	1150	1300	1250	1430	1480	2220	2050	1690	1810
6	1800	2210	2080	1050	1300	1300	1480	1490	2500	2030	1650	1810
7	1800	2220	2090	1000	1300	1350	1550	1490	2720	2000	1710	1800
8	1810	2240	2080	950	1300	1400	1590	1490	2890	1960	1730	1800
9	1830	2250	2060	920	1300	1430	1640	1510	3040	1950	1700	1810
10	1870	2250	2060	880	1300	1420	1670	1510	3100	1920	1700	1810
11	1870	2240	2050	890	1350	1440	1740	1520	3110	1900	1700	1800
12	1950	2270	2040	860	1350	1440	1780	1560	3130	1850	1720	1820
13	2030	2280	1950	860	1350	1450	1780	1590	3200	1970	1690	1810
14	2100	2250	1800	1000	1350	1460	1780	1640	3250	1710	1640	1800
15	2150	2210	1640	1150	1350	1460	1810	1690	3250	1580	1670	1800
16	2170	2140	1560	1100	1350	1460	1890	1750	3230	1540	1730	1800
17	2200	2100	1550	1100	1350	1470	1960	1810	3180	1550	1760	1800
18	2200	2090	1530	1050	1350	1490	1940	1840	3140	1590	1770	1730
19	2220	2070	1520	1150	1350	1510	1760	1870	3060	1620	1790	1530
20	2220	2070	1480	1200	1400	1530	1630	1860	2930	1610	1800	1450
21	2220	2060	1400	1200	1400	1550	1670	1840	2770	1620	1790	1480
22	2210	2050	1340	1200	1400	1560	1640	1810	2600	1640	1780	1490
23	2190	2060	1300	1200	1350	1570	1560	1800	2520	1640	1770	1530
24	2190	2050	1180	1250	1350	1530	1470	1830	2470	1700	1770	1600
25	2180	2040	1170	1300	1350	1110	1400	1860	2450	1730	1800	1600
26	2170	1970	1160	1350	1300	991	1360	1890	2420	1760	1830	1580
27	2150	2020	1100	1350	1300	967	1320	1910	2390	1770	1840	1560
28	2150	2040	1100	1350	1300	970	1290	1920	2360	1770	1860	1530
29	2140	2040	1100	1350	1250	1060	1260	1930	2260	1780	1860	1520
30	2120	2030	1100	1350	---	1090	1270	1900	2180	1760	1860	1520
31	2130	---	1150	1350	---	1040	---	1890	---	1790	1850	---
TOTAL	63210	64010	50840	35260	38750	41298	46340	52600	80290	56120	54550	50880
MEAN	2039	2134	1640	1137	1336	1332	1545	1697	2676	1810	1760	1696
MAX	2220	2280	2090	1350	1400	1570	1960	1930	3250	2140	1860	1830
MIN	1800	1970	1100	860	1250	967	1030	1460	1890	1540	1640	1450
AC-FT	125400	127000	100800	69940	76860	81910	91920	104300	159300	111300	108200	100900

CAL YR 1983 TOTAL 613835 MEAN 1682 MAX 3670 MIN 436 AC-FT 1218000
WTR YR 1984 TOTAL 634148 MEAN 1733 MAX 3250 MIN 860 AC-FT 1258000

10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°32'13", long 111°34'20", in NW1/4 NW1/4 SE1/4 sec.20, T.10 S., R.42 E., Bear Lake County, Hydrologic Unit 16010202, on right bank just below Wilson Creek, 15 ft below road bridge, 0.3 mi north of Eightmile Ranger Station, and 8.4 mi south of Soda Springs.

DRAINAGE AREA.--22.6 mi2.

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR ID-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,170 ft, from topographic map.

REMARKS.--Records good except those affected by backwater from a beaver dam, Jan. 9 to Mar. 20, which are fair.

AVERAGE DISCHARGE.--24 years, 17.6 ft3/s, 12,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 230 ft3/s June 1, 1984, gage height, 2.39 ft; minimum, 0.73 ft3/s Nov. 17, 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 230 ft3/s June 1, gage height, 2.53 ft; minimum daily, 4.1 ft3/s Mar. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	7.5	5.9	6.1	6.8	5.8	4.8	23	216	69	24	13
2	12	9.0	6.4	5.7	6.7	5.5	4.8	26	206	65	23	13
3	9.8	7.9	6.9	5.9	6.6	5.4	4.8	25	201	62	22	12
4	8.7	7.3	7.7	5.8	6.4	5.0	5.0	27	190	58	22	12
5	9.2	9.0	7.1	6.4	6.3	4.7	5.8	25	176	54	21	12
6	8.0	5.7	6.5	6.3	6.3	5.1	7.2	26	163	51	21	12
7	7.7	10	5.6	6.4	6.5	5.0	7.6	27	156	49	20	12
8	7.5	9.6	6.8	6.3	6.6	4.8	8.2	30	144	46	19	12
9	8.7	8.6	6.5	6.4	6.7	4.6	8.4	37	127	44	19	11
10	9.0	9.0	6.8	5.9	7.2	4.7	8.0	43	121	42	18	11
11	7.9	9.9	7.4	5.2	7.0	4.9	7.7	53	110	38	18	12
12	8.2	9.4	8.4	5.9	7.3	4.5	7.5	66	99	36	18	12
13	8.1	10	7.7	6.0	7.9	4.7	7.5	96	95	34	19	11
14	8.7	9.5	7.7	6.0	8.2	5.2	8.1	140	99	32	17	11
15	8.4	9.0	7.3	5.3	7.1	4.7	11	175	110	30	17	11
16	7.9	9.8	6.2	5.4	7.8	4.6	17	177	125	28	18	11
17	7.9	10	6.7	5.3	7.6	4.5	27	149	135	28	18	11
18	7.6	9.4	6.2	5.3	7.2	4.3	36	130	133	28	17	10
19	7.5	8.3	5.5	5.3	6.9	4.1	37	125	130	29	16	9.9
20	7.5	8.6	5.1	5.1	6.4	4.4	33	135	131	29	16	11
21	7.4	8.9	4.5	5.0	6.8	4.4	30	139	132	31	15	12
22	7.2	7.9	4.4	5.0	6.7	4.3	30	131	127	29	15	9.9
23	9.3	7.4	4.7	5.4	6.6	4.3	31	132	119	31	15	12
24	10	7.5	5.4	5.5	6.3	4.3	31	156	110	29	14	11
25	9.5	8.5	6.2	5.7	6.5	4.3	30	157	103	27	15	10
26	9.2	8.3	6.8	5.7	6.3	4.4	28	147	95	26	15	9.9
27	7.9	7.1	6.9	6.7	5.6	4.4	26	143	88	25	14	9.7
28	7.7	8.1	6.1	6.3	5.7	4.4	25	138	82	25	14	9.7
29	7.6	7.0	6.2	7.3	5.8	4.4	24	140	78	24	13	9.6
30	7.6	5.0	6.5	7.1	---	4.4	23	153	74	24	13	10
31	8.4	---	6.3	6.8	---	4.6	---	211	---	24	13	---
TOTAL	259.0	254.6	198.7	183.9	195.8	144.7	534.4	3186	3865	1149	539	333.7
MEAN	8.35	8.49	6.41	5.93	6.75	4.67	17.8	103	129	37.1	17.4	11.1
MAX	12	10	8.4	7.3	8.2	5.8	37	211	216	69	24	13
MIN	7.2	5.0	4.4	5.0	5.6	4.1	4.8	23	74	24	13	9.6
AC-FT	514	505	394	365	388	287	1060	6320	7670	2280	1070	662

CAL YR 1983 TOTAL 9017.2 MEAN 24.7 MAX 198 MIN 3.0 AC-FT 17890
WTR YR 1984 TOTAL 10543.3 MEAN 28.8 MAX 216 MIN 4.1 AC-FT 21510

10075000 BEAR RIVER AT SODA SPRINGS, ID

LOCATION.--Lat 42°36'50", long 111°34'58", in NW1/4 SW1/4 NW1/4 sec.29, T.9 S., R.42 E., Caribou County, Hydrologic Unit 16010202, on left bank 800 ft upstream from Bailey Creek road bridge and 2 mi south of Soda Springs.

DRAINAGE AREA.--3,972 mi2.

PERIOD OF RECORD.--May to September 1896, May, June 1898, and October 1953 to current year in reports of U.S. Geological Survey. Irrigation season only during 1944-49, 1951-53 in reports of Bear River Hydrometric Data (U.S. Geological Survey Open-File Report).

REVISED RECORDS.--WDR ID-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft, from topographic map. May 25 to Oct. 2, 1896, May 22 to July 1, 1898, staff gage at different datum. During irrigation season 1944-49, 1950-53, water-stage recorder at site 500 ft downstream at different datum.

REMARKS.--Records good. Natural flow of stream affected by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power and Light Company, under general supervision of U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--31 years, 716 ft3/s, 518,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft3/s June 9, 15, 1896, gage height, 8.40 ft, datum then in use; minimum, 41 ft3/s Nov. 16, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,510 ft3/s June 16; minimum daily, 911 ft3/s Dec. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2020	2260	2200	1570	1390	1320	1090	1720	2420	2400	1950	1910
2	2070	2260	2200	1510	1400	1330	1090	1800	2440	2350	1930	1900
3	2070	2230	2220	1320	1390	1330	1240	1770	2550	2290	1890	1890
4	2030	2290	2220	1390	1360	1220	1410	1740	2580	2270	1860	1890
5	1990	2340	2220	1330	1340	1230	1490	1720	2720	2240	1820	1890
6	1980	2390	2220	1430	1330	1250	1600	1700	2920	2210	1750	1920
7	1970	2420	2210	1400	1460	1310	1670	1700	3130	2190	1790	1900
8	1960	2420	2210	1380	1330	1360	1730	1680	3280	2170	1840	1900
9	1990	2390	2200	1310	1290	1310	1770	1710	3370	2140	1830	1910
10	2060	2390	2210	1250	1400	1350	1800	1770	3440	2110	1810	1910
11	2030	2410	2200	1210	1320	1370	1850	1790	3470	2080	1830	1930
12	2080	2420	2190	1190	1340	1380	1890	1870	3440	2060	1820	1980
13	2160	2450	2130	1150	1360	1390	1900	1950	3460	2020	1810	1940
14	2240	2420	2010	1140	1400	1380	1900	2060	3470	1900	1750	1930
15	2300	2360	1360	1110	1330	1350	1970	2220	3470	1790	1740	1930
16	2320	2330	1740	1170	1290	1350	2140	2300	3510	1740	1810	1930
17	2340	2310	1710	1210	1290	1370	2360	2320	3500	1730	1880	1930
18	2350	2310	1670	1190	1300	1370	2500	2320	3450	1740	1860	1980
19	2320	2270	1680	1240	1300	1410	2400	2310	3390	1800	1870	1750
20	2330	2250	1600	1270	1300	1460	2150	2330	3270	1820	1900	1610
21	2330	2240	1510	1300	1300	1490	2050	2320	3130	1870	1890	1640
22	2310	2220	911	1330	1310	1500	2050	2290	2960	1920	1870	1630
23	2320	2210	1150	1360	1310	1520	2020	2260	2940	1920	1870	1690
24	2320	2220	1260	1370	1310	1540	1920	2340	2770	1910	1870	1810
25	2300	2210	1350	1390	1310	1290	1800	2390	2740	1930	1900	1800
26	2290	2090	1340	1390	1320	1060	1700	2390	2700	1940	1930	1770
27	2280	2190	1410	1390	1320	1020	1630	2390	2650	1940	1930	1740
28	2260	2200	1400	1420	1320	1010	1590	2370	2600	1940	1930	1700
29	2250	2190	1270	1420	1320	1080	1560	2380	2510	1940	1940	1690
30	2240	2140	1200	1410	---	1130	1550	2380	2450	1960	1930	1680
31	2260	---	1210	1390	---	1110	---	2420	---	1940	1930	---
TOTAL	67770	68850	55011	40990	38730	40590	53820	64700	90630	62270	57720	54980
MEAN	2186	2295	1775	1322	1336	1309	1794	2087	3021	2009	1862	1833
MAX	2350	2450	2220	1570	1460	1540	2500	2420	3510	2400	1950	1980
MIN	1960	2090	911	1110	1290	1010	1090	1650	2420	1730	1740	1610
AC-FT	134400	136600	109100	81300	76820	80510	106800	128300	179800	123500	114500	109100

CAL YR 1983 TOTAL 726622 MEAN 1991 MAX 4130 MIN 635 AC-FT 1441000
WTR YR 1984 TOTAL 696061 MEAN 1902 MAX 3510 MIN 911 AC-FT 1381000

10076400 SODA CREEK AT FIVEMILE MEADOWS, NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°43'45", long 111°36'55", in NW1/4 NE1/4 SW1/4 sec.13, T.8 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 100 ft southeast of Lau ranchhouse, 150 ft downstream from Schmidt ditch, and 5 mi north of Soda Springs.

DRAINAGE AREA.--51.7 mi2.

PERIOD OF RECORD.--October 1964 to current year. April 1923 to October 1926 at this site published as "at Lau Ranch;" records since October 1964 equivalent if Schmidt ditch diversion is subtracted from flow past station.

REVISED RECORDS.--WDR ID-74-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft, from topographic map. April 1923 to October 1926 at different datum and Oct. 1, 1964, to Aug. 26, 1965, at site 400 ft upstream at different datum.

REMARKS.--Records fair. Records herein include flow in Schmidt ditch.

AVERAGE DISCHARGE.--20 years, 17.1 ft3/s, 12,390 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121 ft3/s Apr. 14, 1976; maximum gage height, 4.01 ft Apr. 2, 1965, site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 119 ft3/s Apr. 18; minimum daily, 23 ft3/s many days during January, February, and March.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	26	26	24	23	23	25	44	45	45	44	41
2	31	26	25	24	23	23	25	47	45	45	44	40
3	31	28	25	24	23	23	26	49	45	45	44	41
4	29	27	26	24	23	23	27	49	46	45	44	41
5	27	28	25	24	23	23	29	47	47	45	44	41
6	26	30	25	24	23	23	32	45	49	45	44	41
7	25	31	26	24	23	23	35	44	52	45	44	41
8	25	32	25	24	23	23	34	42	53	45	43	40
9	26	30	25	24	23	23	33	42	52	45	43	40
10	27	29	25	24	23	23	32	42	51	45	44	40
11	26	29	25	24	23	23	33	42	53	44	44	39
12	25	29	25	24	23	23	35	42	53	44	44	40
13	25	29	25	24	23	23	38	42	51	44	44	39
14	26	30	25	24	23	24	43	43	49	44	44	39
15	26	29	25	24	23	24	49	43	49	44	44	38
16	25	28	25	24	23	24	75	44	49	44	44	39
17	25	30	25	24	23	24	106	43	50	44	45	39
18	25	34	24	24	23	24	118	43	50	44	46	38
19	24	32	24	23	23	24	109	43	49	44	44	38
20	24	31	24	23	23	24	93	43	49	44	44	40
21	24	29	24	23	23	24	79	43	47	46	44	44
22	24	28	24	23	23	24	67	43	47	48	42	44
23	24	27	24	23	23	24	58	43	46	48	43	43
24	25	27	24	23	23	24	54	45	45	47	44	44
25	25	27	24	23	23	24	50	45	45	46	44	42
26	25	26	24	23	23	24	46	44	45	45	44	42
27	25	26	24	23	23	24	45	44	45	45	44	41
28	24	26	24	23	23	24	44	44	45	47	44	40
29	24	26	24	23	23	24	43	44	45	48	42	40
30	25	26	24	23	---	24	43	44	45	48	41	40
31	26	---	24	23	---	25	---	45	---	47	42	---
TOTAL	801	856	764	731	667	732	1528	1363	1440	1405	1353	1215
MEAN	25.8	28.5	24.6	23.6	23.0	23.6	50.9	44.0	48.0	45.3	43.6	40.5
MAX	32	34	26	24	23	25	119	49	53	48	46	44
MIN	24	26	24	23	23	23	25	42	45	44	41	38
AC-FT	1590	1700	1520	1450	1320	1450	3030	2700	2860	2790	2680	2410

CAL YR 1983	TOTAL	9994	MEAN	27.4	MAX	54	MIN	15	AC-FT	19820
WTR YR 1984	TOTAL	12855	MEAN	35.1	MAX	119	MIN	23	AC-FT	25500

10079500 BEAR RIVER AT ALEXANDER, ID

LOCATION.--Lat 42°38'42", long 111°41'51", in NE1/4 SW1/4 NW1/4 sec.17, T.9 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 600 ft downstream from Soda hydroelectric plant of Utah Power and Light Company, 0.5 mi southeast of Alexander, and 5 mi downstream from Soda Creek.

DRAINAGE AREA.--4,399 mi2.

PERIOD OF RECORD.--March 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR ID-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,650 ft, from topographic map.

REMARKS.--Records good. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power and Light Company, under general supervision of U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--73 years, 800 ft3/s, 579,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,740 ft3/s Mar. 31, 1911; maximum gage height, 15.95 ft Dec. 11, 1919 (backwater from ice); minimum, 15 ft3/s Aug. 24, 1979, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,630 ft3/s June 15; minimum daily, 768 ft3/s Mar. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2240	1690	2210	1340	1540	1570	1690	1710	2650	2200	2170	2230
2	2240	2660	2260	1340	1540	1560	1690	1700	2650	2240	2210	2230
3	2240	2630	2390	1340	1560	1560	1440	1700	2630	2310	2720	2240
4	2310	2500	2460	1410	1590	1560	939	1860	2650	2340	2150	2230
5	2340	2500	2450	1470	1490	1560	944	1940	2770	2330	2110	2180
6	2350	2500	2450	1470	1440	1550	1080	1960	2870	2190	2110	2150
7	2330	2580	2350	1470	1440	1550	1210	1940	2880	2130	2040	2150
8	2280	2680	2130	1470	1440	1550	1260	1960	3050	2140	1960	2150
9	2250	2640	2730	1560	1420	1550	1320	1910	3460	2140	1990	2160
10	2250	2560	2280	1570	1420	1670	1850	1890	3440	2150	2020	2170
11	2260	2510	2240	1570	1420	1690	1980	1880	3450	2160	1930	2170
12	2260	2510	2280	1590	1430	1690	1980	1890	3550	2110	1990	2170
13	2250	2520	2480	1590	1430	1680	1980	1900	3530	2050	2070	2200
14	2350	2530	2430	1590	1570	1680	1970	1980	3610	2050	2000	2210
15	2410	2540	2240	1590	1530	1670	1970	2150	3630	1940	2020	2210
16	2410	2540	1780	1530	1440	1790	2040	2350	3570	1870	2040	2200
17	2410	2650	1720	1530	1440	1800	2160	2450	3540	1860	2010	2200
18	2440	2720	1720	1530	1470	1670	2120	2480	3530	1770	2000	2190
19	2640	2710	1790	1450	1510	1650	1950	2480	3530	1730	2060	2120
20	2720	2690	1920	1330	1500	1570	2200	2490	3530	1740	2140	2060
21	2620	2090	1790	1350	1500	1550	2510	2500	3440	1870	2130	1980
22	2640	2330	1120	1150	1500	1700	2510	2500	3270	1940	2160	1830
23	2680	2330	1090	1350	1490	1740	2500	2500	3130	2010	2120	1930
24	2620	2330	1070	1410	1490	1750	2490	2500	2950	2080	2100	1820
25	2590	2330	977	1540	1480	1090	2190	2490	2870	2070	2100	1960
26	2590	2340	1070	1630	1490	768	2030	2490	2620	2080	2100	2060
27	1600	2240	1160	1580	1460	777	2020	2510	2620	2050	2100	2060
28	2450	2210	1320	1530	1450	973	1910	2590	2520	2080	2140	2040
29	2430	2210	1330	1580	1490	1200	1790	2650	2550	1840	2190	2000
30	2400	2210	1350	1560	---	1270	1760	2650	2350	1570	2230	1990
31	2300	---	1370	1540	---	1530	---	2650	---	2150	2250	---
TOTAL	73900	73500	57477	46120	42950	46898	55483	68630	92720	63220	64870	63190
MEAN	2384	2450	1854	1488	1481	1513	1849	2214	3091	2039	2093	2106
MAX	2720	2720	2480	1630	1590	1800	2510	2650	3630	2340	2250	2240
MIN	1600	1690	977	1150	1420	768	939	1700	2350	1570	1960	1820
AC-FT	146600	145800	114000	91480	85190	93020	110100	136100	183900	125400	128700	125300

CAL YR 1983 TOTAL 710135 MEAN 1946 MAX 3680 MIN 545 AC-FT 1409000
WTR YR 1984 TOTAL 748753 MEAN 2046 MAX 3630 MIN 768 AC-FT 1486000

10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID

LOCATION.--Lat 42°19'57", long 111°46'27", in NW1/4 SE1/4 SW1/4 sec.34, T.12 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 500 ft upstream from Cleveland irrigation canal, 2.5 mi west of Cleveland, and 4 mi downstream from proposed Cottonwood Dam.

DRAINAGE AREA.--61.7 mi2.

PERIOD OF RECORD.--November 1938 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,150 ft, from topographic map. Prior to Dec. 29, 1944, nonrecording gage at same site and datum.

REMARKS.--Records good. A few small diversions for irrigation of meadowland in Cottonwood Valley above station. Treasureton Canal diverts from Cottonwood Creek 10.1 mi above station for irrigation in Battle Creek basin in vicinity of Treasureton.

AVERAGE DISCHARGE.--45 years, 33.4 ft3/s, 24,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,090 ft3/s May 15, 1984, gage height, 4.34 ft; minimum, no flow Feb. 19, 20, 21, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 200 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)
Apr. 18	2100	742	3.79
May 15	0200	*1090	4.34

Minimum daily, 9.8 ft3/s Dec. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	24	23	33	26	28	51	188	217	55	32	23
2	52	26	26	27	26	28	49	294	187	52	32	22
3	42	29	30	29	26	28	53	291	188	50	30	21
4	30	25	29	32	26	28	59	259	172	49	29	20
5	26	29	25	33	27	29	56	251	209	45	29	20
6	24	32	25	33	27	28	91	218	216	40	28	22
7	25	33	24	31	28	29	98	204	211	35	26	21
8	23	34	30	29	28	30	103	247	173	36	26	22
9	23	30	33	32	28	31	98	314	150	33	25	21
10	30	30	34	30	30	31	86	345	159	33	24	20
11	25	29	36	33	28	30	78	371	176	32	24	20
12	24	31	35	32	28	29	72	399	145	31	25	45
13	23	32	34	31	29	29	69	495	130	29	23	26
14	27	31	35	31	29	31	80	603	123	26	23	23
15	25	28	35	27	28	32	121	681	122	26	22	21
16	24	29	32	23	28	33	209	462	113	25	33	21
17	23	33	33	18	29	32	325	432	107	24	43	20
18	22	36	29	13	29	31	430	398	101	23	29	19
19	21	31	28	15	29	31	444	401	95	22	27	18
20	21	32	17	15	29	32	321	416	89	23	27	20
21	21	31	12	22	28	38	277	386	85	44	24	33
22	21	29	10	26	29	36	279	342	81	53	23	25
23	23	29	9.8	27	28	36	317	340	77	38	23	27
24	28	28	18	28	28	41	325	371	72	32	24	30
25	24	31	30	29	28	39	289	318	69	34	25	26
26	23	27	34	29	28	41	221	281	65	36	26	22
27	23	25	34	29	28	40	182	274	63	32	24	21
28	22	30	23	29	25	4[illegible]	170	253	59	31	23	20
29	22	28	27	27	28	4[illegible]	169	245	56	62	21	20
30	21	15	31	27	---	[illegible]	153	245	56	39	21	19
31	26	---	33	26	---	4[illegible]	---	265	---	34	22	---
TOTAL	799	876	863.8	847	810	1046	5287	10553	3766	1124	810	688
MEAN	25.8	29.2	27.9	27.3	27.9	33.7	176	341	126	36.3	26.1	22.9
MAX	52	36	36	33	30	48	444	681	217	62	43	45
MIN	21	15	9.8	13	26	28	49	188	56	22	21	18
AC-FT	1580	1740	1710	1680	1610	2070	10490	20940	7470	2230	1610	1360

CAL YR 1983 TOTAL 25477.8 MEAN 69.8 MAX 405 MIN 9.8 AC-FT 50540
WTR YR 1984 TOTAL 27474.8 MEAN 75.1 MAX 681 MIN 9.8 AC-FT 54500

10086500 BEAR RIVER BELOW UTAH POWER & LIGHT CO.'S TAILRACE, AT ONEIDA, ID

LOCATION.--Lat 42°16'00", long 111°45'04", in NE1/4 SE1/4 NW1/4 sec.26, T.12 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 200 ft downstream from tailrace of Oneida plant and 6 mi south of Cleveland.

DRAINAGE AREA.--4,456 mi2.

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only October 1921 to September 1945, published in WSP 1314.

REVISED RECORDS.--WDR ID-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft, from topographic map.

REMARKS.--Records good. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power and Light Company, under general supervision of U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

AVERAGE DISCHARGE.--63 years, 876 ft3/s, 634,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,480 ft3/s May 8, 1922; minimum, 3.0 ft3/s June 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,790 ft3/s June 13; minimum daily, 662 ft3/s Dec. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2120	2430	2700	2010	1740	1790	2440	2990	4070	2540	2250	2510
2	2300	2630	2730	1750	1690	1810	2450	3300	4060	2430	2330	2190
3	2550	2700	2290	1720	1770	1870	2470	3260	4050	2490	2230	2560
4	2120	2330	2930	1700	1950	1890	2350	3410	4040	2520	2220	2510
5	2480	2910	2930	1720	2030	1910	2060	3390	4030	2530	2230	2400
6	2550	2900	2590	1900	1890	1940	2210	3430	3250	2540	2620	2400
7	2300	2900	2930	2030	1770	1910	2580	3440	4140	2290	2140	2250
8	2210	2950	2930	2040	1770	2380	2540	2980	4440	2200	2090	2420
9	2800	3140	2930	2040	1770	2430	2670	3430	4700	2260	1900	2300
10	2160	3040	2450	1940	1770	2400	2700	3550	4680	2280	2040	2330
11	2600	3050	2920	1870	1770	2400	2810	3430	4730	2270	1620	2420
12	2120	3030	2490	1870	1730	1940	2760	3430	4750	2050	1990	2420
13	2400	2950	2890	1870	1740	2230	2730	3570	4790	2200	2400	2490
14	2130	2840	2900	1870	1840	2140	2810	3370	4740	2100	2060	2350
15	2460	2960	2950	1920	1840	2020	2930	4100	4760	1970	2070	2230
16	2400	2960	2320	2050	1920	2360	3220	4110	4680	1890	2140	2430
17	2510	2950	2080	1820	1920	2790	3930	4120	4630	1960	2160	2380
18	2310	3070	2150	1670	1930	2010	4020	4130	4590	1960	1860	2280
19	2370	3240	1950	1670	1910	2130	4010	4140	4550	1480	2100	2120
20	2340	3180	2170	1670	1850	1990	4000	4140	4510	1390	2620	2190
21	2340	3180	2200	1620	1880	1300	4010	4140	4470	1440	2550	2260
22	2550	2970	1770	1640	1900	2420	4050	4130	4220	1970	2170	1690
23	2550	2640	662	1800	1840	2060	4050	4120	3910	2640	2330	2160
24	2990	2220	1040	2000	1820	1320	4050	4120	3520	2020	2310	2150
25	2920	2930	1200	2000	1820	1340	4040	4120	3330	2610	2310	2100
26	2840	2690	2090	2270	1830	1350	3730	4120	3010	2000	2270	2290
27	2840	2770	2430	1690	1950	1350	3340	4110	2810	2320	2390	2440
28	1950	2570	1740	2000	2060	829	3130	4110	2980	2540	2310	2130
29	2580	2490	1640	2000	1970	1640	3030	4100	2960	1290	2470	1960
30	2880	2550	1560	2000	---	2020	2640	4090	2660	1910	2390	2230
31	2360	---	1970	1830	---	2230	---	4080	---	2150	2520	---
TOTAL	80810	85150	71082	58030	53440	60649	93660	117460	122080	66270	69140	68630
MEAN	2607	2838	2293	1872	1843	1956	3122	3789	4069	2138	2230	2288
MAX	2990	3240	2930	2270	2060	2790	4050	4140	4790	2640	2620	2560
MIN	1950	2220	662	1620	1690	829	2060	2980	2660	1290	1620	1690
AC-FT	160300	168900	141000	115100	106000	120300	185800	233000	242100	131400	137100	136100

CAL YR 1983 TOTAL	838833	MEAN	2298	MAX	4220	MIN 136	AC-FT 1664000
WTR YR 1984 TOTAL	946401	MEAN	2586	MAX	4790	MIN 662	AC-FT 1877000

10090500 BEAR RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°10'05", long 111°50'59", in NW1/4 NE1/4 NW1/4 sec.36, T.14 S., R.39 E., Franklin County, Hydrologic Unit 16010202, on left bank 600 ft downstream from headgates of West Cache Canal, 5 mi downstream from Pink Creek, 5 mi north of Preston, and 5.5 mi upstream from Battle Creek.

DRAINAGE AREA.--4,565 mi2.

PERIOD OF RECORD.--October 1889 to December 1916, January to September 1917 (gage heights only), October 1943 to current year. Prior to 1903, published as "at Battlecreek." Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 205: 1905(M). WDR ID-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,526.9 ft National Geodetic Vertical Datum of 1929, unadjusted. October 1889 to September 1917 nonrecording gages at several sites within 5 mi downstream at different datums.

REMARKS.--Records good. Station is below all irrigation diversions from Bear River in Idaho except Cub River pumps in SE1/4 sec.20, T.15 S., R.39 E. Natural flow of stream affected by storage reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--41 years (water years 1944-84), 937 ft3/s, 678,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD (since 1943).--Maximum discharge, 4,680 ft3/s June 13, 1984, gage height, 5.49 ft; no flow Sept. 10-11, 1920.

1889-1917: Maximum flood occurred June 9, 10, 1907, about 8,500 ft3/s, estimated on basis of records for downstream station Bear River near Collinston (sta 10118000), site and datum then in use. Maximum gage height observed, 9.04 ft Jan. 17, 18, 1917 (backwater from ice), site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,680 ft3/s June 13, gage height, 5.49 ft; minimum daily, 900 ft3/s Dec. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2170	2440	2700	2020	1970	1640	2450	2550	3960	2500	2050	2410
2	2930	2640	2900	1910	1790	1920	2460	3030	3830	2430	2160	2070
3	2670	2760	2120	1720	1350	1860	2470	2870	3810	2510	2050	2390
4	2440	2340	2920	1690	2020	1880	2400	2920	3780	2450	2060	2360
5	2570	2920	2910	1750	2060	1890	2110	3040	3730	2410	2040	2250
6	2630	2920	2690	1970	2010	1910	2260	2910	3160	2400	2440	2240
7	2890	2930	2930	2000	1730	1910	2530	2950	3860	2170	2040	2100
8	2330	2980	2930	2000	1740	2370	2560	2620	4120	2050	1940	2250
9	2900	3140	2920	2000	1740	2440	2670	2990	4450	2130	1750	2140
10	2270	2970	2490	1900	1740	2430	2630	3140	4450	2160	1970	2150
11	2590	3040	2940	1830	1740	2420	2710	3050	4480	2150	1540	2250
12	2210	3030	2710	1830	1730	1830	2550	3090	4530	1910	1540	2250
13	2880	2950	2930	1930	1690	2210	2580	3300	4560	2030	2260	2340
14	2220	2820	2900	1840	1700	2190	2670	3700	4570	1950	1920	2200
15	2550	2920	2900	1830	1770	2100	2790	4050	4600	1810	1930	2070
16	2550	2920	2920	2040	1840	2430	3090	4110	4630	1860	2040	2390
17	2890	2930	2330	1940	1660	2850	3650	4020	4600	1730	1990	2300
18	2880	3040	1690	1670	1790	2070	3920	3920	4600	1830	1750	2300
19	2430	3230	2120	1270	1750	2170	3900	3590	4610	1370	1970	2230
20	2890	3160	2000	1440	1790	2090	3820	3940	4570	1290	2470	2170
21	2900	3150	2000	1750	1800	1920	3740	3990	4510	1370	2450	2250
22	2910	2950	1900	1750	1940	2510	3710	3940	4300	1960	2000	1770
23	2930	2880	900	1600	1930	2290	3720	3890	3990	2580	2210	2200
24	3060	1970	1150	1930	1820	1510	3730	3920	3560	1880	2120	2200
25	3000	2930	1300	1930	1920	1480	3700	3900	3360	2550	2140	2150
26	2930	2630	2150	2220	1830	1480	3430	3820	3130	2000	2130	2350
27	2930	2730	2600	1700	1910	1460	3040	3750	2920	2120	2230	2390
28	2020	2580	1910	1970	2010	959	2790	3770	3050	2340	2150	2280
29	2630	2450	1710	2010	1960	1650	2660	3740	2870	1310	2330	2050
30	2920	2900	1530	2030	---	2050	2370	3760	2710	1730	2260	2300
31	2930	---	1910	1940	---	2270	---	3830	---	1930	2410	---
TOTAL	83350	85300	72160	57370	53130	62079	89330	108440	119200	62930	64560	66790
MEAN	2689	2843	2328	1851	1832	2003	2978	3498	3973	2030	2082	2226
MAX	3060	3230	2940	2220	2080	2850	3920	4110	4630	2580	2470	2410
MIN	2020	1970	900	1270	1690	959	2110	2550	2710	1290	1540	1770
AC-FT	165300	169200	143100	113800	105400	123100	177200	215100	236400	124800	128000	132500

CAL YR 1983 TOTAL 860187 MEAN 2357 MAX 4560 MIN 172 AC-FT 1706000
WTR YR 1984 TOTAL 924609 MEAN 2526 MAX 4630 MIN 900 AC-FT 1834000

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

LOCATION.--Lat 42°00'47", long 111°55'14", in NW1/4 NE1/4 sec.29, T.16 S., R.39 E., Franklin County, Idaho, Hydrologic Unit 16010202, on left bank 1,050 ft downstream from inlet canal to Cub River pumps, 1.1 mi downstream from Weston Creek, 1.3 mi upstream from State line, and 3.5 mi southeast of Weston.

DRAINAGE AREA.--4,951 mi2.

PERIOD OF RECORD.--October 1970 to current year.

REVISED RECORDS.--WDR ID-74-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft, from topographic map. Prior to Sept. 10, 1982, at datum 2.00 ft higher.

REMARKS.--Records fair. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--14 years, 1,360 ft3/s, 985,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,870 ft3/s June 14, 1984, gage height, 9.20 ft; minimum observed, 73 ft3/s June 29, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,870 ft3/s June 14, gage height, 9.20 ft; minimum daily, 840 ft3/s Dec. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2490	2530	2780	2120	1960	1720	2910	2540	4070	2480	2500	2450
2	3240	2730	2990	1930	1880	1910	2910	3270	4080	2450	2690	2210
3	3110	2700	2770	1810	1940	1950	2740	3190	4040	2490	2470	2260
4	2760	2840	3030	1770	2120	1970	2740	3260	4020	2520	2910	2340
5	2660	2670	3030	1840	2190	1970	2400	3370	4090	2580	2610	2240
6	2310	3020	2960	2000	2110	2010	2350	3230	4110	2410	2650	2210
7	3060	3050	3000	2000	1820	2010	2850	3240	4360	2390	2640	2050
8	2540	3100	3130	1990	1930	2610	2850	2930	4330	2200	2510	2220
9	3030	3240	3120	1990	1930	2690	2990	3220	4700	2240	2210	2110
10	2590	3400	2740	1960	1830	2670	2930	3390	4770	2240	2200	2070
11	3030	3070	3130	1810	1830	2560	2950	3450	4750	2220	2130	2160
12	2340	3320	3010	1910	1820	2010	2970	3410	4750	2300	2100	2150
13	3010	3160	3150	1800	1770	2430	2900	3520	4770	2200	2400	2200
14	2340	2990	3110	1770	1870	2410	2830	3570	4740	2360	2390	2070
15	2620	3050	3170	1790	1960	2310	2940	4340	4760	2470	2090	2200
16	2630	3050	3080	2040	1930	2670	3220	4490	4760	2660	2220	1900
17	2990	3050	2670	1820	1950	3140	3830	4470	4750	2600	2190	2100
18	3020	3130	1950	1750	1880	2230	4390	4390	4790	2350	2240	2090
19	2530	3390	2290	1330	1840	2390	4530	4320	4780	2710	2430	2010
20	2950	3410	2160	1510	1890	2300	4530	4320	4750	2740	2790	2040
21	3040	3360	2100	1840	1890	2110	4370	4350	4690	2740	2840	2120
22	3040	3240	2000	1950	1930	2760	4230	4350	4600	2280	2350	1780
23	3060	2990	840	1890	1920	2520	4180	4260	4260	2650	2630	1960
24	3160	2350	1210	2090	1910	1660	4180	4260	3900	2660	2250	2200
25	3250	3030	1360	2090	1910	1630	4160	4280	3570	2580	2270	2040
26	3080	2840	2260	2330	1920	1630	4050	4180	3370	2940	2280	2180
27	3070	2840	2730	1730	2010	1610	3550	4110	2800	2730	2350	2230
28	2380	2680	2010	2070	2110	1700	3270	4080	2990	2790	2250	2060
29	1930	2520	1900	2110	2060	1920	2940	4050	2890	3040	2390	2120
30	2980	2590	1610	2130	---	2260	2790	4010	2730	2370	2410	1990
31	3070	---	2010	2040	---	2510	---	4050	---	2500	2310	---
TOTAL	88360	89490	76630	59030	55790	68310	100200	118170	125780	77850	74910	63760
MEAN	2850	2983	2472	1904	1924	2204	3340	3812	4193	2511	2416	2125
MAX	3250	3410	3170	2330	2190	3140	4530	4490	4790	3040	2910	2450
MIN	1930	2350	840	1330	1770	1610	2350	2540	2730	2200	2090	1780
AC-FT	175300	177500	152000	117100	110700	135500	198700	234400	249500	154400	148600	126500

CAL YR 1983 TOTAL 970404 MEAN 2659 MAX 4830 MIN 406 AC-FT 1925000
WTR YR 1984 TOTAL 998250 MEAN 2728 MAX 4790 MIN 840 AC-FT 1980000

13093000 CUB RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°08'25", long 111°41'26", in NW1/4 NW1/4 NE1/4 sec.8, T.15 S., R.41 E., Franklin County, Hydrologic Unit 16010202, Cache National Forest, on right bank 0.2 mi upstream from headgates of Cub River-Worm Creek Canal, 0.7 mi upstream from forest boundary, and 10 mi east of Preston.

DRAINAGE AREA.--31.6 mi2.

PERIOD OF RECORD.--March 1940 to September 1952, October 1953 to current year.

REVISED RECORDS.--WDR ID-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,285.1 ft National Geodetic Vertical Datum of 1929, unadjusted.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--41 years, 86.8 ft3/s, 62,890 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 840 ft3/s June 18, 1962, gage height 2.90 ft; maximum gage height, 3.83 ft June 2, 1943; no flow for part of Jan. 29, 1965, result of snowslide.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 813 ft3/s May 16, gage height, 2.62 ft; minimum daily, 19 ft3/s Feb. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	49	53	36	29	26	39	92	729	554	96	54
2	50	48	51	35	29	26	42	97	695	509	91	53
3	54	45	51	35	29	26	46	111	630	462	89	53
4	53	50	45	35	29	26	50	112	662	425	87	51
5	54	52	44	34	29	26	56	116	682	399	85	52
6	54	49	45	34	29	26	68	113	641	382	84	51
7	53	47	45	34	29	32	68	106	606	369	82	51
8	50	47	44	34	29	34	70	110	560	355	80	50
9	51	46	44	33	28	35	69	137	512	336	78	49
10	54	45	45	33	30	32	60	168	475	313	76	48
11	56	47	44	33	28	26	56	179	433	292	75	50
12	55	47	45	33	28	26	48	222	405	273	73	48
13	55	51	44	33	29	27	46	343	416	259	73	48
14	56	49	44	33	31	31	47	496	500	246	71	47
15	55	47	43	33	29	35	60	666	595	230	70	47
16	55	46	42	33	29	36	95	776	630	216	69	47
17	56	51	42	32	28	31	134	652	656	203	67	46
18	55	52	42	31	28	30	164	495	653	193	66	45
19	54	49	41	30	27	29	161	519	660	183	65	44
20	54	49	41	30	27	31	139	639	668	174	63	44
21	53	48	41	31	27	33	114	696	634	169	62	46
22	52	49	40	31	27	31	107	620	643	161	61	44
23	53	53	40	31	27	31	110	611	623	150	60	49
24	54	53	41	31	27	31	106	662	607	141	58	45
25	51	53	39	31	27	31	102	686	617	133	59	43
26	50	50	39	31	26	31	90	602	609	126	58	44
27	50	50	38	30	26	31	81	624	634	122	56	43
28	48	51	38	30	26	31	78	629	625	115	55	42
29	49	51	38	29	26	31	76	648	612	111	55	42
30	49	50	39	29	---	33	78	720	593	105	55	42
31	50	---	37	29	---	36	---	750	---	100	54	---
TOTAL	1629	1474	1325	997	813	941	2460	13388	18005	7806	2173	1418
MEAN	52.5	49.1	42.7	32.2	28.0	30.4	82.0	432	600	252	70.1	47.3
MAX	56	53	53	36	31	36	164	776	729	554	96	54
MIN	46	45	37	29	26	26	39	92	405	100	54	42
AC-FT	3230	2920	2630	1980	1610	1870	4880	26560	35710	15480	4310	2810

CAL YR 1983 TOTAL 46706 MEAN 127 MAX 740 MIN 23 AC-FT 92640
WTR YR 1984 TOTAL 52429 MEAN 143 MAX 776 MIN 26 AC-FT 104000

12303000 KOOTENAI RIVER AT LIBBY, MT

LOCATION.--Lat 48°24'03", long 115°33'08", in SW1/4 SE1/4 SW1/4 sec.34, T.31 N., R.31 W., Lincoln County, Hydrologic Unit 17010101, on right bank 1,300 ft downstream from highway bridge at Libby, 0.8 mi downstream from Libby Creek, and at mile 204.3.

DRAINAGE AREA.--10,240 mi2, approximately.

PERIOD OF RECORD.--October 1910 to current year. Monthly discharge only for some periods, published in WSP 1316.

REVISED RECORDS.--WSP 1042: 1933. WSP 1246: 1912(M), 1915(M), 1916, 1918-19(M), 1924-27(M).

GAGE.--Water-stage recorder. Datum of gage is 2,041.56 ft National Geodetic Vertical Datum of 1929. Prior to Apr. 28, 1931, nonrecording gages at site 1,800 ft upstream at different datum.

REMARKS.--Records excellent except those for below 10,000 ft3/s, which are good. Flow regulated by Lake Koocanusa (sta 12301920) since Mar. 21, 1972. Diversions for irrigation of about 14,500 acres from tributaries above station in Canada and the United States.

AVERAGE DISCHARGE.--74 years, 12,130 ft3/s, 16.08 in./yr, 8,790,000 acre-ft/yr, adjusted for change in contents in Lake Koocanusa since Mar. 21, 1972.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121,000 ft3/s June 21, 1916, gage height, 20.7 ft, present datum, derived from gage-relation study; minimum observed, 895 ft3/s Jan. 11, 1930 (result of discharge measurement).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,200 ft3/s Jan. 5, gage height, 7.25 ft; minimum daily, 4,020 ft3/s Aug. 12, Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6770	9200	21300	21500	20300	4710	4830	5140	5000	5030	15200	8020
2	5900	5720	21400	21500	20100	4780	4930	5150	4590	8190	17700	7590
3	12500	4320	21500	21500	20100	4570	4810	5210	4460	13800	19400	7570
4	13900	5220	21600	21400	6190	4540	4780	5170	4420	9200	8530	9050
5	14100	4890	21600	17800	4630	4540	4790	5140	4570	8630	5100	8210
6	14100	4810	21700	5230	4590	4540	4840	5090	4690	7450	8600	14200
7	14100	5020	21700	5260	8290	4560	4850	5030	4740	4940	14400	14400
8	8860	4720	21800	5240	18500	4600	4880	5010	5420	4630	16000	8690
9	7630	4560	21900	9250	18700	4580	4890	5080	5280	6390	16000	5970
10	13600	4490	21900	21800	18700	4560	4900	5140	5180	11800	9970	7390
11	19500	4590	22000	21500	5800	4590	4910	5130	5400	15100	4980	7740
12	19700	4750	17200	21200	4590	4680	4920	5420	5430	15700	4020	7620
13	19800	4620	17200	21300	4580	4790	4900	5640	5410	15400	9070	7660
14	19800	9800	17200	21200	4580	4840	4870	6130	5510	11600	10300	9550
15	19900	9530	17700	21000	4560	4880	4880	6400	5830	11300	9920	4860
16	19900	10100	21500	21100	4550	4890	5020	5760	8560	11100	9780	4020
17	19300	13300	21400	20900	4550	4930	5500	5440	5920	11400	9630	5070
18	19400	10400	21400	20900	4530	4910	5750	5250	5650	11500	5290	14100
19	18800	12400	21500	20600	4550	4920	5790	5350	5560	17300	5100	14600
20	19700	20800	21700	20600	4570	4930	6120	6700	5400	19800	11200	14900
21	20100	20700	21900	20800	4610	4940	6400	6290	6720	12500	19300	12300
22	9120	20900	21900	20800	4730	5070	6230	5290	6940	11800	19300	8120
23	7560	21000	21700	20700	4580	5000	6110	5280	6120	11200	16800	4210
24	9510	21000	21800	20600	4530	4970	5730	5240	5870	9590	19400	8310
25	9530	21100	21600	20700	4540	4940	5170	4890	6010	9360	19500	12300
26	9810	21100	21700	20900	4520	4970	5050	4700	6000	9500	16800	11300
27	4860	21100	21800	20700	4520	4940	4700	4690	5900	9310	14400	11600
28	4130	21100	21800	20700	4640	4890	4800	4650	5650	5530	14100	12300
29	4150	21200	21800	20500	4580	4880	4700	4900	5590	4230	13000	8960
30	4170	21200	21400	20400	---	4860	4760	5860	5390	8660	9500	5750
31	4190	---	21400	20400	---	4840	---	6020	---	12300	9450	---
TOTAL	394990	363700	654300	583650	228210	148640	154910	166080	167210	324240	382040	279350
MEAN	12740	12120	21100	18990	7869	4795	5164	5357	5574	10460	12320	9312
MAX	20100	21200	22000	21800	20300	5070	6400	6700	8560	19800	19500	14900
MIN	4130	4320	17200	5230	4520	4540	4700	4650	4420	4230	4020	4020
AC-FT	783500	721400	1297000	1158000	452700	294800	307300	329400	331700	643100	757800	554100
MEAN †	4676	6779	4050	5497	3993	3932	7601	14720	37910	20050	8811	6220
CFSM †	0.46	0.66	0.40	0.54	0.39	0.38	0.74	1.44	3.70	1.96	0.86	0.61
IN †	0.53	0.74	0.46	0.62	0.42	0.44	0.83	1.66	4.10	2.26	0.99	0.68
AC-FT †	287500	403400	249000	338000	229700	241600	452300	905400	2255700	1233100	541800	370100

OBSERVED

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CAL YR 1983    TOTAL  4295370    MEAN  11770    MAX   22000    MIN   4130    AC-FT 8520000
WTR YR 1984    TOTAL  3852020    MEAN  10520    MAX   22000    MIN   4020    AC-FT 7641000
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ADJUSTED

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CAL YR 1983    TOTAL  4282279    MEAN  11730    CFSM  1.15     IN   15.55    AC-FT 8494000
WTR YR 1984    TOTAL  3735123    MEAN  10340    CFSM  1.01     IN   13.75    AC-FT 7508000
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(†) Adjusted for change in contents in Lake Koocanusa.

12304500 YAAK RIVER NEAR TROY, MT

LOCATION.--Lat 48°33'43", long 115°58'09", in NE1/4 SE1/4 SE1/4 sec.5, T.32 N., R.34 W., Lincoln County, Hydrologic Unit 17010103, Kootenai National Forest, on right bank 500 ft upstream from bridge on U.S. Highway 2, 0.2 mi upstream from mouth, and 7.7 mi northwest of Troy.

DRAINAGE AREA.--766 mi2.

PERIOD OF RECORD.--October 1910 to September 1916 (fragmentary record), March 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,839.2 ft National Geodetic Vertical Datum of 1929. Oct. 15, 1910 to Sept. 30, 1916, nonrecording gage at several sites within 11 mi of present site at various datums.

REMARKS.--Water-discharge records good except those for Dec. 18 to Feb. 3, which are poor. Diversions for irrigation of about 30 acres above station.

AVERAGE DISCHARGE.--28 years, 897 ft3/s, 15.90 in./yr, 649,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,100 ft3/s May 21, 1956, gage height, 9.70 ft, in gage well, 10.9 ft, from outside gage; minimum daily, 50 ft3/s Dec. 9, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May to June 1948 reached a stage of 11.0 ft from floodmarks, discharge, 12,500 ft3/s. Flood in May 1954 reached a stage of 11.4 ft from floodmarks; discharge, 13,400 ft3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,240 ft3/s May 30, gage height, 6.97 ft, no peak above base of 5,000 ft3/s; minimum, 114 ft3/s Sept. 20, gage height, 3.01 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	162	275	225	190	430	292	605	1190	3040	1140	279	127
2	159	296	211	200	440	300	597	1280	2560	1050	263	127
3	159	393	292	270	450	296	587	1450	2380	996	259	127
4	171	1530	353	265	468	288	593	1340	2310	927	259	124
5	168	1100	372	285	447	279	667	1270	2470	874	255	122
6	162	823	367	310	436	292	802	1210	2440	833	245	129
7	159	919	349	340	426	292	809	1150	2360	774	236	134
8	156	726	358	330	415	300	795	1200	2690	713	225	132
9	156	599	367	320	401	317	815	1280	2990	674	214	140
10	153	534	367	310	396	333	802	1330	2900	629	207	156
11	151	605	344	295	382	426	781	1320	2610	593	197	151
12	148	740	326	280	372	478	740	1430	2470	557	190	165
13	148	687	317	270	386	500	713	1550	2450	525	187	142
14	148	636	309	260	386	511	687	1800	2500	495	177	140
15	148	605	300	250	372	528	733	2060	2740	463	174	134
16	148	617	259	240	363	569	996	2130	2790	447	168	129
17	148	740	197	230	335	605	1560	2080	2560	421	165	124
18	159	767	185	220	331	605	1750	1960	2280	401	159	119
19	162	706	170	210	317	587	2020	2110	2050	382	159	117
20	162	661	155	200	331	591	2940	3210	1980	363	153	122
21	165	597	145	230	335	629	3190	3160	2290	349	151	190
22	187	551	135	270	331	726	2320	2710	2990	335	145	222
23	300	517	130	310	322	740	2590	2920	2380	326	142	229
24	304	495	120	330	313	802	2250	3020	2030	322	140	186
25	259	473	130	350	304	731	1940	2610	1940	313	137	159
26	225	452	140	360	304	747	1710	2420	1800	300	132	151
27	211	441	155	375	296	713	1520	2490	1690	295	127	145
28	207	421	145	390	292	687	1430	2470	1520	283	122	140
29	194	363	175	400	292	661	1330	2790	1400	292	129	137
30	190	296	145	410	---	642	1250	3600	1300	309	129	134
31	211	---	165	420	---	617	---	3810	---	300	127	---
TOTAL	5580	18572	7369	9070	10674	16149	40043	64400	69860	16700	5655	4332
MEAN	180	619	238	293	368	521	1333	2077	2329	539	182	144
MAX	304	1530	372	420	468	802	3190	3810	3040	1140	279	229
MIN	148	275	120	190	292	279	597	1150	1300	283	122	117
CFSM	.23	.81	.31	.38	.48	.68	1.74	2.71	3.04	.70	.24	.19
IN.	.27	.90	.36	.44	.52	.79	1.94	3.13	3.39	.81	.27	.21
AC-FT	11070	36840	14610	17990	21170	32030	79420	127700	138600	33120	11220	8590

CAL YR 1983 TOTAL 366007 MEAN 1003 MAX 5680 MIN 120 CFSM 1.31 IN. 17.77 AC-FT 726000
WTR YR 1984 TOTAL 268403 MEAN 733 MAX 3810 MIN 117 CFSM .96 IN. 13.03 AC-FT 532400

12305000 KOOTENAI RIVER AT LEONIA, ID

LOCATION.--Lat 48°37'04", long 116°02'47", in NW1/4 NW1/4 NW1/4 sec.20, T.33 N., R.34 W., Principal meridian, Lincoln County, Mont., Hydrologic Unit 17010104, on right bank at Leonia, 450 ft east of Montana-Idaho State line, 0.5 mi upstream from Boulder Creek, and at mile 171.6.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,790.25 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1970, at datum 90 ft lower. Prior to Nov. 13, 1928, nonrecording gage on bridge 250 ft upstream at datum 90.41 ft lower.

REMARKS.--Records good. Diversions above station for irrigation of about 14,600 acres. Flow regulated by Lake Koocanusa since Mar. 21, 1972. Corps of Engineers radio telemeter at station.

AVERAGE DISCHARGE.--56 years, 13,950 ft3/s, 16.14 in./yr, 10,110,000 acre-ft/yr (flows not adjusted for storage change in upstream reservoir).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 123,000 ft3/s May 28, 1948, gage height, 33.40 ft; minimum, 996 ft3/s Dec. 9, 1936; minimum gage height, 7.56 ft Dec. 10, 1929.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of June 1894 and 1916 reached stages of 34.6 and 31.6 ft, respectively, present datum, from information by Great Northern Railway.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,100 ft3/s, gage height, 17.05 ft Jan. 5; minimum, 4,340 ft3/s Sept. 17, gage height, 10.27 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 4-21, Nov. 17 to July 13, Sept. 4-30)

10.0	3770	15.0	15430
11.0	5250	18.0	27100
13.0	9610	22.0	46900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9650	6340	20700	20400	20000	4990	5660	7100	11000	7760	13600	9300
2	6720	9710	20900	20400	19800	5090	5600	7410	9580	8970	18000	8380
3	9840	5160	21100	20500	19700	5070	5580	7650	9060	14300	19700	8360
4	13900	8180	21200	20500	10100	4870	5560	7670	8880	12900	12400	9350
5	14100	7650	21300	20500	5300	4880	5660	7300	9120	10800	7100	8590
6	14200	6870	21300	6880	5190	4850	5900	7120	9430	9530	6460	13800
7	14200	7540	21400	6200	5560	4850	5920	6990	9060	7960	13600	14700
8	11900	6700	21400	6220	17800	4900	5960	6990	10200	6370	16300	11000
9	8400	6140	21900	6520	18400	4900	6000	7190	10400	6830	16300	6800
10	11300	5830	20900	21100	18500	4960	6000	7340	10100	11400	13300	7690
11	18900	6260	21000	21200	9580	5070	6000	7320	9790	14900	6660	8570
12	19100	6830	17500	20700	5230	5270	5920	7740	9910	16300	6500	8480
13	19300	6570	16400	20700	5230	5440	5880	8250	9910	17200	6830	8300
14	19200	8210	16300	20400	5190	5600	5790	9250	10100	12600	10700	10500
15	19300	10800	16500	20200	5140	5660	5870	10300	10900	11900	10400	6810
16	19300	11600	19900	20400	5090	5700	6380	9740	12800	11900	10300	6410
17	18800	13000	20100	20200	5040	5810	7870	9140	11900	12000	9870	5790
18	19000	13700	20000	20200	4980	5810	8610	8710	10200	11900	9140	14200
19	18400	12100	20200	20200	4980	5770	9090	9040	9700	16700	6500	14900
20	19000	21200	20200	20200	5010	5790	10700	12500	9250	20100	9790	15200
21	19500	21100	20500	20200	5030	5880	11400	12500	11200	15100	18300	14200
22	12700	21200	20600	20100	5120	6100	10900	10500	13100	12700	19200	9890
23	8910	21100	20600	20100	5070	6120	10500	10800	11000	11500	16800	6030
24	9900	21200	20700	20000	4980	6200	9740	11100	10200	10800	19200	6320
25	10600	21200	20500	20800	4930	6140	8520	9950	10100	10100	19400	12800
26	10600	21100	20600	21000	4900	6080	8000	9350	10000	10300	17900	11900
27	7490	21100	20700	20700	4880	6020	7540	9350	9600	10100	14700	12300
28	4640	21100	20700	20500	4900	5900	7250	9300	9180	8090	14600	12900
29	4590	21100	20700	20600	4960	5850	6990	9920	8770	5030	14000	11200
30	4600	20900	20400	20400	---	5770	6710	12700	8530	6660	10600	7490
31	4670	---	20300	20200	---	5700	---	13800	---	14000	10300	---
TOTAL	402710	391490	626500	578220	240590	171060	217500	283820	302950	356700	394450	300160
MEAN	12990	13050	20210	18650	8296	5517	7250	9155	10100	11510	12720	10010
MAX	19500	21200	21900	21200	20000	6200	11400	13800	13100	20100	19700	15200
MIN	4590	5160	16300	6200	4880	4850	5560	6990	8530	5030	4500	6410
AC-FT	798800	776500	1243000	1147000	477200	339300	431400	563000	600900	707500	782400	595400

CAL YR 1983 TOTAL 5002960 MEAN 13710 MAX 23100 MIN 4590 AC-FT 9923000
WTR YR 1984 TOTAL 4266130 MEAN 11660 MAX 21900 MIN 4410 AC-FT 8462000

12305000 KOOTENAI RIVER AT LEONIA, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-63, 1965 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1962 to May 1963, April 1965 to current year.
INSTRUMENTATION.--Temperature recorder since July 1962.
REMARKS.--Daily water temperature data for water years 1977 and 1978 were insufficient for publishing due to equipment malfunction. Partial records for these years are available in the state office.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 20.5°C July 10-11, 1975; minimum, 0.5°C Nov. 11-14, 1966, Nov. 8-9, 1971, Jan. 20-21, 1980, and Feb. 1-2, 1981.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 18.0°C July 27,29; minimum, 2.0°C Feb. 19.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	10.5	10.0	8.0	7.5	6.0	5.5	---	---	4.5	3.5
2	---	---	10.5	10.0	7.5	6.5	6.0	5.5	---	---	5.0	4.0
3	---	---	10.0	10.0	7.5	7.5	6.0	5.0	---	---	4.0	3.5
4	---	---	10.0	9.0	7.5	7.5	5.0	4.0	---	---	3.5	---
5	---	---	9.0	8.5	7.5	7.5	4.5	4.0	---	---	---	---
6	---	---	9.0	8.0	7.5	7.5	4.5	3.5	---	---	---	---
7	12.5	12.5	8.0	7.5	7.5	7.0	3.5	3.5	---	---	---	---
8	12.5	11.5	8.0	7.5	7.5	7.0	5.0	4.0	4.0	3.5	---	---
9	12.0	11.5	7.5	7.5	7.5	7.5	5.0	4.5	4.0	3.5	---	---
10	12.5	12.0	8.0	7.5	8.0	7.5	5.0	4.5	4.0	3.5	---	---
11	12.0	11.5	8.0	7.5	8.0	8.0	4.5	4.0	4.0	3.5	---	---
12	12.0	11.5	8.0	8.0	8.0	7.5	4.0	3.5	4.0	3.5	---	---
13	12.0	10.5	8.5	8.0	8.0	7.5	4.0	3.5	4.0	3.5	---	---
14	11.0	10.5	9.0	8.0	7.5	7.5	4.0	3.5	4.0	3.5	---	---
15	11.0	11.0	9.5	8.5	7.5	7.0	3.5	3.5	3.5	3.0	---	---
16	11.0	10.5	9.5	9.0	7.0	6.5	3.5	3.5	4.0	3.0	---	---
17	11.0	10.5	9.5	8.5	6.5	6.0	3.5	3.0	3.5	3.0	---	---
18	10.5	10.5	9.5	8.5	6.0	6.0	3.5	3.0	3.5	2.5	---	---
19	10.5	10.0	9.0	8.0	6.0	5.5	3.5	3.5	3.5	2.0	---	---
20	11.0	10.5	9.0	8.5	6.0	5.5	4.0	3.5	4.0	2.5	---	---
21	11.0	10.5	9.5	9.0	5.5	4.5	4.5	3.5	4.0	3.5	---	---
22	11.0	10.5	9.0	9.0	5.0	4.0	---	---	4.0	3.5	---	---
23	10.5	10.0	9.0	8.5	5.0	4.5	---	---	4.0	3.5	---	---
24	10.0	9.5	9.0	8.5	5.5	5.0	---	---	4.0	3.5	---	---
25	10.5	10.0	9.0	8.5	5.5	5.0	---	---	4.0	3.0	---	---
26	10.5	10.0	9.0	9.0	5.0	4.5	---	---	4.0	3.5	---	---
27	10.5	10.0	9.0	9.0	5.0	4.0	---	---	4.5	3.5	---	---
28	10.0	9.5	9.0	8.5	5.0	4.5	---	---	4.5	3.5	---	---
29	9.5	9.0	8.5	8.0	5.5	5.0	---	---	4.0	3.5	---	---
30	9.5	9.0	8.0	7.5	6.0	5.0	---	---	---	---	---	---
31	10.0	9.0	---	---	5.5	5.0	---	---	---	---	---	---
MONTH	12.5	9.0	10.5	7.5	8.0	4.0	6.0	3.0	4.5	2.0	5.0	3.5

12305000 KOOTENAI RIVER AT LEONIA, ID--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	APRIL MAX	APRIL MIN	MAY MAX	MAY MIN	JUNE MAX	JUNE MIN	JULY MAX	JULY MIN	AUGUST MAX	AUGUST MIN	SEPTEMBER MAX	SEPTEMBER MIN
1	---	---	8.0	6.5	9.5	7.5	12.5	11.5	16.0	15.5	14.5	13.5
2	---	---	8.0	7.0	10.5	8.5	14.0	11.5	15.5	14.5	14.5	13.5
3	---	---	7.5	6.5	10.5	9.0	13.0	12.0	15.5	14.5	14.5	13.5
4	---	---	7.0	6.0	10.0	9.0	13.5	12.0	15.5	14.0	15.0	13.5
5	---	---	7.5	6.0	9.5	8.5	14.5	13.5	15.5	15.0	15.5	15.0
6	---	---	7.5	6.0	9.5	8.5	15.0	14.0	16.5	14.5	15.0	13.0
7	---	---	8.5	6.5	10.0	9.0	15.0	13.5	14.5	14.0	13.0	12.5
8	---	---	8.0	7.0	10.0	8.5	16.0	13.5	15.0	13.5	13.0	12.5
9	5.5	5.0	[illegible]	6.5	9.0	8.5	16.0	13.5	15.0	13.5	14.0	12.5
10	6.0	5.0	8.0	7.0	10.5	8.5	14.5	14.0	15.0	13.5	14.0	13.0
11	6.0	4.5	7.0	6.5	11.0	9.5	14.0	13.0	16.5	15.0	14.0	13.5
12	5.5	4.5	8.0	6.0	11.5	10.0	14.5	13.0	17.5	15.0	13.5	13.0
13	6.0	4.5	9.5	7.0	11.0	10.5	14.5	12.5	17.0	15.0	14.5	12.5
14	7.0	5.5	9.0	7.5	12.5	10.0	15.0	13.0	16.0	14.5	14.0	13.5
15	8.0	6.0	7.5	7.0	13.0	11.5	15.0	13.5	16.0	14.5	13.5	12.5
16	9.0	6.5	7.0	7.0	12.5	11.5	15.5	13.5	16.0	14.0	14.0	11.5
17	8.0	6.5	8.5	6.5	12.5	11.0	15.5	14.5	16.5	15.0	15.0	12.5
18	7.0	6.5	9.0	7.5	13.0	11.5	16.0	14.5	16.5	15.5	14.5	13.5
19	7.0	6.0	8.5	7.5	12.5	11.5	15.0	14.0	17.0	15.0	14.0	13.0
20	6.5	5.5	7.5	7.0	13.0	11.5	14.5	12.5	15.5	14.5	13.5	12.5
21	6.5	5.5	8.0	7.0	12.0	10.0	14.0	12.5	15.5	14.0	13.0	12.5
22	7.5	6.0	8.5	7.0	10.0	9.0	14.0	13.0	15.0	13.0	12.5	12.0
23	7.0	6.0	9.0	8.0	12.5	10.0	14.5	13.5	15.0	13.5	12.0	11.0
24	6.5	5.5	9.0	7.5	14.0	11.5	16.5	14.5	15.0	13.5	12.0	10.5
25	6.0	5.0	9.5	7.5	14.5	13.0	17.5	16.0	15.0	13.0	13.5	12.0
26	5.5	4.5	8.5	8.0	14.5	13.0	17.0	16.0	14.5	13.0	13.5	12.5
27	6.5	4.5	10.0	7.5	15.0	13.5	18.0	16.5	14.5	13.0	12.5	12.0
28	6.0	5.0	11.0	8.5	15.0	14.0	16.5	15.5	13.0	12.0	12.5	12.0
29	7.5	5.0	12.0	9.5	14.5	12.5	18.0	16.0	13.0	11.5	12.5	11.5
30	7.5	6.0	11.0	9.5	13.0	12.0	17.5	15.5	12.5	11.5	12.5	11.5
31	---	---	9.5	8.0	---	---	16.0	14.5	13.5	12.0	---	---
MONTH	9.0	4.5	12.0	6.0	15.0	7.5	18.0	11.5	17.5	11.5	15.5	10.5
YEAR	18.0	2.0										

KOOTENAI RIVER BASIN

12306500 MOYIE RIVER AT EASTPORT, ID
(International gaging station)

LOCATION.--Lat 48°59'58", long 116°10'43", in NW¼NE¼SE¼ sec.10, T.65 N., R.2 E., Boundary County, Hydrologic Unit 17010105, Kaniksu National Forest, on left bank at Eastport, 1,000 ft downstream from international boundary, and at mile 25.0.

DRAINAGE AREA.--570 mi², approximately.

PERIOD OF RECORD.--January to December 1915, March to December 1916, August 1929 to current year in reports of Geological Survey. Monthly discharge only for some periods, published in WSP 1736.

GAGE.--Water-stage recorder. Datum of gage is 2,620.06 ft National Geodetic Vertical Datum of 1929. January 1915 to December 1916 nonrecording gage at site 0.2 mi upstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. No regulation or diversion above station.

COOPERATION.--This station is one of the international gaging stations maintained by the United States under agreement with Canada. Three discharge measurements per year furnished by Water Survey of Canada.

AVERAGE DISCHARGE.--55 years, 706 ft³/s, 16.82 in./yr, 511,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 10,600 ft³/s June 19, 1916; maximum gage height, 10.55 ft May 20, 1954; minimum discharge, 23 ft³/s Nov. 7, 1936, gage height, 3.20 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,900 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
May 30	2345	*4110	*7.57	June 8	1330	3440	7.13

Minimum discharge, 47 ft³/s Sept. 19-20, gage height 3.39 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 1-10, Dec. 19 to Jan. 4, Jan. 8-15)

Oct. 1 - Jan. 7		Jan. 8 - Sept. 30			
3.6	87	3.4	40	5.0	895
3.9	177	3.6	88	6.0	1940
4.2	309	3.9	193	7.3	3680
4.7	612	4.3	391		
5.4	1160				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	170	255	145	305	181	364	1020	3040	1160	170	60
2	101	169	200	155	283	181	358	1080	2760	1080	166	60
3	99	327	210	176	278	181	364	1110	2600	985	166	55
4	99	1200	215	300	288	177	364	1050	2490	904	162	55
5	98	754	215	533	278	174	415	1000	2710	830	154	55
6	97	753	220	624	278	177	470	985	2650	778	147	58
7	97	798	225	712	256	177	470	967	2610	730	133	62
8	94	699	235	550	256	181	482	1010	3130	670	126	60
9	97	637	250	400	247	190	482	1180	3330	620	122	72
10	96	599	260	300	242	202	482	1260	3090	578	119	64
11	94	623	257	250	238	234	470	1300	2710	536	119	60
12	94	666	251	235	238	252	450	1360	2560	496	113	62
13	92	627	247	220	242	265	432	1440	2500	456	111	62
14	92	592	239	215	242	270	420	1770	2530	432	106	58
15	92	578	232	210	234	278	456	2070	2620	403	102	55
16	90	572	222	210	229	299	678	2100	2660	380	99	55
17	91	622	202	210	224	315	1140	2020	2530	352	94	53
18	93	632	184	210	216	315	1300	2010	2310	331	91	51
19	93	593	160	215	211	315	1520	2260	2120	310	91	49
20	95	566	140	220	206	320	2270	3020	1960	283	88	53
21	98	528	125	240	206	364	2340	2920	2210	270	84	88
22	115	494	110	250	206	397	2260	2660	2360	256	82	107
23	216	471	98	280	202	409	2120	2840	2060	247	79	84
24	154	447	97	320	198	432	1890	2810	1900	234	76	70
25	135	439	96	360	198	426	1690	2570	1800	220	73	65
26	129	412	98	350	193	421	1510	2410	1660	206	70	62
27	125	397	95	340	190	403	1360	2340	1550	198	66	60
28	121	369	90	330	185	391	1260	2380	1410	189	64	58
29	119	338	99	325	181	380	1160	2710	1340	181	62	55
30	119	321	115	320	---	374	1080	3530	1260	181	62	55
31	134	---	130	347	---	369	---	3600	---	181	60	---
TOTAL	3372	16393	5572	9552	6750	9050	30057	60782	70460	14677	3257	1863
MEAN	109	546	180	308	233	292	1002	1961	2349	473	105	62.1
MAX	216	1200	260	712	305	432	2340	3600	3330	1160	170	107
MIN	90	169	90	145	181	174	358	967	1260	181	60	49
CFSM	.19	.96	.32	.54	.41	.51	1.76	3.44	4.12	.83	.18	.11
IN.	.22	1.07	.36	.62	.44	.59	1.96	3.97	4.60	.96	.21	.12
AC-FT	6690	32520	11050	18950	13390	17950	59620	120600	139800	29110	6460	3700

CAL YR 1983 TOTAL 281706 MEAN 772 MAX 5090 MIN 90 CFSM 1.35 IN. 18.39 AC-FT 558800
WTR YR 1984 TOTAL 231785 MEAN 633 MAX 3600 MIN 49 CFSM 1.11 IN. 15.13 AC-FT 459700

KOOTENAI RIVER BASIN

12306500 MOYIE RIVER AT EASTPORT, ID--Continued
(International gaging station)

GAGE HEIGHT (FEET ABOVE DATUM) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.64	3.83	4.24	---	4.15	3.88	4.26	5.18	6.84	5.27	3.82	3.46
2	3.63	3.82	4.32	---	4.11	3.88	4.25	5.24	6.64	5.19	3.81	3.46
3	3.61	4.12	4.32	5.27	4.10	3.87	4.26	5.27	6.52	5.09	3.80	3.44
4	3.62	5.37	4.09	5.28	4.12	3.87	4.26	5.20	6.44	5.00	3.79	3.44
5	3.62	4.84	4.07	4.52	4.10	3.86	4.36	5.15	6.61	4.94	3.77	3.44
6	3.61	4.84	4.03	4.66	4.10	3.86	4.45	5.13	6.56	4.85	3.75	3.45
7	3.61	4.90	4.02	4.78	4.05	3.87	4.45	5.11	6.53	4.79	3.71	3.46
8	3.60	4.76	4.04	4.71	4.05	3.88	4.47	5.16	6.91	4.71	3.69	3.45
9	3.60	4.68	4.07	4.66	4.03	3.90	4.47	5.33	7.05	4.64	3.68	3.50
10	3.60	4.62	4.05	4.69	4.02	3.93	4.47	5.42	6.88	4.58	3.67	3.47
11	3.59	4.65	4.03	4.74	4.01	4.00	4.45	5.45	6.61	4.52	[illegible]	[illegible]
12	3.59	4.72	4.02	4.77	4.01	4.04	4.42	5.51	6.49	4.46	3.65	[illegible]
13	3.58	4.66	4.01	4.76	4.02	4.07	4.40	5.58	6.45	4.40	3.64	[illegible]
14	3.58	4.61	3.99	4.41	4.02	4.08	4.37	5.88	6.47	4.35	3.63	[illegible]
15	3.58	4.59	3.98	4.30	4.00	4.10	4.44	6.13	6.54	4.30	3.62	[illegible]
16	3.57	4.58	3.95	---	3.99	4.14	4.76	6.15	6.57	4.26	3.61	3.43
17	3.57	4.65	3.90	---	3.98	4.17	5.29	6.09	6.47	4.21	3.59	3.42
18	3.59	4.67	3.86	---	3.96	4.17	5.46	6.08	6.30	4.17	3.58	3.41
19	3.58	4.61	3.97	---	3.95	4.17	5.68	6.27	6.15	4.12	3.58	3.40
20	3.59	4.57	5.17	---	3.94	4.18	6.30	6.84	6.02	4.08	3.57	3.42
21	3.60	4.51	5.44	---	3.94	4.26	6.35	6.77	6.21	4.05	[illegible]	3.55
22	3.65	4.46	---	---	3.94	4.32	6.29	6.58	6.34	4.02	3.55	3.62
23	3.94	4.42	---	---	3.93	4.34	6.18	6.71	6.10	4.00	3.54	3.54
24	3.78	4.38	---	---	3.92	4.38	5.99	6.68	5.96	3.97	3.52	3.49
25	3.73	4.37	---	---	3.92	4.37	5.83	6.50	5.87	3.94	3.51	3.47
26	3.71	4.32	---	---	3.91	4.36	5.67	6.38	5.75	3.91	3.50	3.46
27	3.69	4.30	---	---	3.90	4.33	5.53	6.32	5.65	3.89	3.48	3.45
28	3.68	4.25	---	---	3.89	4.31	5.43	6.35	5.53	3.87	3.48	3.44
29	3.67	4.20	---	---	3.88	4.29	5.32	6.60	5.46	3.85	3.47	3.43
30	3.67	4.16	---	4.18	---	4.28	5.23	7.19	5.38	3.85	3.47	3.42
31	3.72	---	---	4.22	---	4.27	---	7.24	---	3.85	3.46	---
MEAN	3.64	4.52	---	---	4.00	4.11	5.04	5.98	6.31	4.36	3.62	3.46
MAX	3.94	5.37	---	---	4.15	4.38	6.35	7.24	7.05	5.27	3.82	3.62
MIN	3.57	3.82	---	---	3.88	3.86	4.25	5.11	5.38	3.85	3.46	3.40

12309500 KOOTENAI RIVER AT BONNERS FERRY, ID

LOCATION.--Lat 48°42'00", long 116°18'45", in NW1/4 SE1/4 NE1/4 sec.27, T.62 N., R.1 E., Boundary County, Hydrologic Unit 17010104, on left bank 43 ft downstream from highway bridge at Bonners Ferry, and at mile 152.8.

DRAINAGE AREA.--12,690 mi2, approximately.

PERIOD OF RECORD.--May to October 1904, October 1927 to current year (elevations only prior to March 1928 and October 1960 to current year). Gage heights collected in this vicinity since 1904 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 1716: Maximum elevation. WDR ID-78-2: 1975(m), 1976(M).

GAGE.--Water-stage recorder. Datum of gage is 1,700.00 ft with respect to Geological Survey benchmark V-3-1929 at elevation 1,777.08 ft. Gage heights have been reduced to that datum. National Geodetic Vertical Datum of 1929 is 0.02 ft higher. May 1 to Oct. 15, 1904, nonrecording gage on railroad bridge 0.8 mi downstream at different datum. Oct. 1, 1927, to Nov. 30, 1929, nonrecording gage near left bank. Dec. 1, 1929, to June 12, 1933, nonrecording gages on old highway bridge 40 ft downstream. Nonrecording gage near right bank on downstream side of highway bridge at Bonners Ferry June 13, 1933, to Sept. 30, 1960. May 8, 1942, to present, recording gage on left bank downstream from highway bridge at present datum. Datum of gages Oct. 1, 1927, to Jan. 2, 1931, was about 0.23 ft lower.

REMARKS.--Elevations affected by backwater from Kootenay Lake. No drainage district dike failed during year. Flow regulated by Libby Dam since Mar. 21, 1972 (see sta 12305000).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,780.13 ft May 29, 1961; minimum, 1,741.14 ft Dec. 5, 1929, Dec. 29, 1930, datum then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of 1,777.2 ft, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,753.01 ft Jan. 5; minimum elevation, 1,744.58 ft Mar. 10, 11.

GAGE HEIGHT (FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47.26	46.15	52.41	52.31	51.91	44.82	44.74	45.42	50.36	50.05	48.72	47.04
2	45.92	48.07	52.39	52.30	51.79	44.85	44.70	45.56	49.27	49.87	50.50	46.51
3	46.01	46.27	52.48	52.33	51.71	44.86	44.65	45.70	48.76	51.14	51.33	46.46
4	48.61	47.83	52.55	52.33	49.64	44.75	44.64	45.62	48.55	51.56	50.12	46.58
5	48.81	47.95	52.57	52.76	46.07	44.69	44.67	45.54	48.64	50.28	47.45	46.69
6	48.88	47.43	52.59	49.25	45.87	44.66	44.78	45.48	48.92	49.83	46.27	47.72
7	48.88	47.72	52.57	47.42	45.82	44.63	44.80	45.42	48.75	49.39	48.48	48.93
8	48.79	47.41	52.63	47.35	49.34	44.60	44.81	45.43	49.21	48.59	50.12	48.34
9	46.53	47.17	52.71	47.23	50.80	44.60	44.82	45.54	50.05	48.32	50.28	46.35
10	46.71	47.05	52.81	51.12	50.85	44.60	44.81	45.65	50.06	49.10	49.92	46.09
11	50.28	47.15	52.82	52.74	48.84	44.62	44.81	45.65	49.66	50.36	47.29	46.61
12	50.91	47.36	52.51	52.67	45.48	44.66	44.76	45.79	49.62	51.12	46.04	46.57
13	51.09	47.24	51.21	52.63	45.33	44.73	44.74	46.02	49.67	51.56	45.97	46.50
14	51.18	47.26	51.08	52.51	45.23	44.80	44.89	46.51	49.85	50.13	47.85	47.09
15	51.27	48.82	51.04	52.29	45.17	44.81	44.69	47.34	50.49	49.55	47.69	46.64
16	51.35	49.06	51.43	52.39	45.19	44.82	44.6[illegible]	47.37	51.14	49.40	47.60	45.20
17	51.23	49.38	52.25	52.30	45.13	44.84	45.40	47.22	51.78	49.28	47.47	45.13
18	51.44	50.28	52.21	52.22	45.06	44.85	45.93	47.01	50.78	49.18	47.37	47.96
19	51.29	49.30	52.22	52.22	45.03	44.84	46.28	47.18	50.47	50.13	45.48	48.88
20	51.21	51.82	52.20	52.09	45.01	44.84	47.17	49.01	50.26	51.61	46.31	49.07
21	51.59	52.66	52.25	52.11	44.99	44.87	48.03	49.92	50.68	50.98	49.42	49.20
22	50.32	52.68	52.26	52.17	45.00	44.93	47.96	49.01	52.23	49.36	50.74	47.66
23	47.79	52.66	52.20	52.12	45.01	44.95	47.73	48.86	51.44	48.70	50.53	46.35
24	47.83	52.71	52.19	52.07	44.97	44.98	47.35	49.39	50.97	48.72	50.35	45.48
25	48.22	52.71	52.17	52.23	44.92	44.96	46.71	48.78	50.89	48.07	50.95	47.84
26	48.20	52.66	52.23	52.41	44.92	44.91	46.23	48.29	50.88	48.03	50.88	48.13
27	47.63	52.64	52.35	52.27	44.88	44.86	45.89	48.16	50.69	47.95	49.48	48.11
28	46.34	52.64	52.36	52.17	44.85	44.84	45.70	48.14	50.55	47.81	49.28	48.25
29	46.23	52.58	52.38	52.21	44.87	44.84	45.55	48.45	50.38	46.28	49.21	48.26
30	46.13	52.53	52.39	52.16	---	44.80	45.40	49.98	50.42	46.37	47.96	46.73
31	46.03	---	52.29	52.00	---	44.76	---	51.52	---	49.07	47.32	---
MEAN	48.84	49.57	52.25	51.69	46.65	44.79	45.58	47.26	50.18	49.41	48.66	47.21
MAX	51.59	52.71	52.82	52.76	51.91	44.98	48.03	51.52	52.23	51.61	51.33	49.20
MIN	45.92	46.15	51.04	47.23	44.85	44.60	44.64	45.42	48.55	46.28	45.48	45.13

CAL YR 1983	MEAN	49.59	MAX	56.29	MIN	44.95
WTR YR 1984	MEAN	48.52	MAX	52.82	MIN	44.60

12314000 KOOTENAI RIVER AT KLOCKMANN RANCH, NEAR BONNERS FERRY, ID

LOCATION.--Lat 48°47'38", long 116°22'51", in SE¼NW¼SE¼ sec.19, T.63 N., R.1 E., Boundary County, Hydrologic Unit 17010104, on right bank 0.3 mi downstream from dike of drainage district No. 5, 8 mi north of Bonners Ferry, and at mile 139.7.

DRAINAGE AREA.--13,300 mi^2, approximately.

PERIOD OF RECORD.--May to July, September to November 1928, April to September, December 1929, April 1930 to current year (elevations only, fragmentary prior to April 1930).

GAGE.--Water-stage recorder. Datum of gage is 1,700.00 ft Topographic Division datum of 1928. Gage readings have been reduced to elevations of that datum. National Geodetic Vertical Datum of 1929 is about 0.03 ft higher. Prior to Sept. 12, 1928, several nonrecording gages within 300 ft at different datums.

REMARKS.--Elevations affected by backwater from Kootenay Lake. No drainage district dike failed during year. Flow regulated by Libby Dam since Mar. 21, 1972.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,776.41 ft June 7, 1961; minimum, 1,738.76 ft Apr. 1, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,750.89 ft June 22; minimum, 1,741.12 ft Apr. 2,3.

GAGE HEIGHT (FEET ABOVE DATUM) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45.71	45.47	50.16	49.91	49.40	43.19	41.27	42.64	48.52	49.36	47.07	45.60
2	44.60	46.62	50.12	49.90	49.27	43.18	41.18	42.77	47.54	49.10	48.35	45.21
3	44.47	45.64	50.18	49.94	49.17	43.18	41.14	42.98	47.08	49.83	49.05	45.15
4	46.36	46.78	50.24	49.99	48.06	43.08	41.16	42.90	46.88	50.27	48.53	45.15
5	46.62	46.93	50.24	50.35	45.22	42.94	41.21	42.78	46.93	49.26	46.51	45.34
6	46.77	46.58	50.26	48.29	44.98	42.84	41.35	42.70	47.21	48.95	45.65	45.63
7	46.80	46.78	50.25	46.72	44.92	42.71	41.44	42.62	47.12	48.60	46.78	46.80
8	46.83	46.58	50.29	46.65	46.80	42.57	41.53	42.66	47.44	48.00	48.07	46.62
9	45.24	46.39	50.35	46.52	48.31	42.48	41.53	42.80	48.26	47.72	48.28	45.31
10	45.16	46.32	50.46	48.79	48.35	42.38	41.45	42.98	48.35	48.01	48.22	45.01
11	47.62	46.38	50.48	50.37	47.23	42.29	41.43	42.98	48.06	48.85	46.40	45.31
12	48.41	46.51	50.38	50.34	44.31	42.22	41.34	43.08	48.03	49.44	45.48	45.26
13	48.62	46.44	49.26	50.29	44.06	42.24	41.31	43.35	48.15	49.72	45.25	45.22
14	48.75	46.36	49.09	50.20	43.90	42.27	41.24	43.80	48.35	48.79	46.34	45.46
15	48.84	47.46	49.02	49.99	43.81	42.22	41.23	44.61	48.97	48.24	46.25	45.41
16	48.93	47.64	49.14	50.04	43.87	42.18	41.43	44.91	49.61	48.06	46.13	44.46
17	48.89	47.85	49.87	49.98	43.78	42.16	42.13	44.87	50.25	47.90	45.99	44.32
18	49.04	48.62	49.84	49.90	43.69	42.14	43.01	44.77	49.55	47.81	45.93	45.76
19	49.01	47.86	49.84	49.89	43.63	42.11	43.44	44.91	49.33	48.28	44.83	46.69
20	48.93	49.42	49.82	49.77	43.57	42.09	44.19	46.42	49.19	49.42	45.06	46.89
21	49.25	50.37	49.83	49.74	43.54	42.09	45.17	47.60	49.47	49.25	46.99	47.10
22	48.66	50.40	49.83	49.79	43.54	42.19	45.29	46.97	50.73	47.89	48.30	46.17
23	46.68	50.41	49.77	49.78	43.53	42.11	45.15	46.73	50.22	47.35	48.33	45.33
24	46.59	50.46	49.75	49.70	43.49	42.10	44.91	47.29	49.88	47.33	47.92	44.70
25	46.87	50.48	49.73	49.79	43.44	41.99	44.39	46.83	49.86	46.78	48.52	45.92
26	46.88	50.44	49.80	49.95	43.41	41.89	43.84	46.40	49.89	46.70	48.58	46.38
27	46.64	50.39	49.90	49.81	43.33	41.75	43.46	46.24	49.76	46.62	47.55	46.28
28	45.79	50.39	49.94	49.70	43.27	41.56	43.20	46.21	49.64	46.56	47.31	46.37
29	45.69	50.33	49.96	49.70	43.25	41.51	42.99	46.44	49.58	45.67	47.24	46.50
30	45.58	50.27	49.99	49.67	---	41.40	42.75	47.70	49.65	45.70	46.46	45.54
31	45.48	---	49.90	49.53	---	41.32	---	49.32	---	47.19	45.81	---
MEAN	47.09	48.09	49.93	49.52	45.07	42.27	42.51	44.81	48.78	48.15	47.01	45.70
MAX	49.25	50.48	50.48	50.37	49.40	43.19	45.29	49.32	50.73	50.27	49.05	47.10
MIN	44.47	45.47	49.02	46.52	43.25	41.32	41.14	42.62	46.88	45.67	44.83	44.32

CAL YR 1983	MEAN	47.68	MAX	54.53	MIN	41.77
WTR YR 1984	MEAN	46.59	MAX	50.73	MIN	41.14

12318500 KOOTENAI RIVER NEAR COPELAND, ID
(International gaging station)

LOCATION.--Lat 48°54'18", long 116°24'07", in NE¼NW¼NE¼ sec.13, T.64 N., R.1 W., Boundary County, Hydrologic Unit 17010104, at the Copeland bridge, 200 ft upstream from Mission Creek, 0.7 mi northwest of Copeland, 1 mi upstream from cableway and at mile 174.2.

DRAINAGE AREA.--13,400 mi^2, approximately.

PERIOD OF RECORD.--October 1927 to current year (elevation record only prior to May 1929). Published as "at Copeland" 1927-29. April 1925 to September 1927 (gage heights only) in reports of Water Survey of Canada, Department of Energy, Mines and Resources. (Gage-height observations discontinued June 19, 1982.)

REVISED RECORDS.--WSP: 1934-37(M), 1940-47(M), 1949(M).

GAGE.--Nonrecording gage, wire weight gage. Datum of gage is 1,700.00 ft Topographic Division datum of 1928. Gage readings have been reduced to elevations of that datum. National Geodetic Vertical Datum of 1929 is about 0.04 ft higher. Prior to Sept. 30, 1975, water-stage recorder located in gage shelter 1 mi downstream at same datum. October 1927 to Nov. 20, 1929, nonrecording or recording gage at site 0.2 mi downstream; datum 40.77 ft higher prior to Apr. 18, 1929.

REMARKS.--Records fair except for those below 10,000 ft^3/s, which are poor. Stage-discharge relation affected by backwater from Kootenay Lake. No drainage district dike failed during year. Discharge computed from slope and conveyance of the reach between stations at Klockmann Ranch and at Porthill, and discharge measurements at station near Copeland. Flow regulated by Libby Dam started on Mar. 21, 1972.

COOPERATION.--This station is maintained by the United States under agreement with Canada. Three discharge measurements per year furnished by Water Survey of Canada.

AVERAGE DISCHARGE.--55 years (water years 1930-84), 15,530 ft^3/s, 15.74 in./yr; 11,250,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 124,000 ft^3/s May 30, 1948; maximum elevation, 1,772.55 ft June 6, 1961; minimum daily discharge, 1,350 ft^3/s Feb. 8, 1936; minimum elevation, 1,738.52 ft Apr. 2, 3, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 23,500 ft^3/s Jan. 11; minimum daily discharge, 4,970 ft^3/s Sept. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11200	5530	22000	21900	22300	5780	6600	8900	18300	10100	12100	9820
2	6840	10800	22000	21900	22000	5920	6430	9290	15300	9730	16800	8320
3	6760	6160	22200	22100	21900	5920	6320	9930	14000	14000	19100	8230
4	13700	9510	22500	22100	17600	5920	6320	9730	13500	16000	16500	8340
5	14300	9670	22600	23100	7620	5770	6370	9400	13500	12300	9080	9340
6	14600	8030	22600	13600	6710	5720	6710	9160	14200	11100	5780	10600
7	14500	8690	22600	8360	6550	5720	6900	8940	13700	9970	11000	14200
8	14500	7870	22700	8420	14500	5710	6960	8980	14200	7930	15700	13100
9	8570	7250	22800	8030	19800	5700	7100	9220	16100	7660	16400	8010
10	8430	6930	23000	18600	20200	5820	7010	9660	16100	10200	16100	6930
11	17500	7190	23000	23500	16400	5880	7050	9680	14900	14200	9090	8230
12	19600	7850	22300	23200	7100	5910	6900	9970	14600	16800	5660	8210
13	19900	7550	18400	23100	6530	6150	6900	11800	14400	17900	5450	8090
14	20100	7440	18100	23000	6380	6390	6760	11700	14600	14300	10600	9210
15	20000	11900	18100	22300	6200	6460	6810	13600	15400	12700	10600	9000
16	20100	12300	19000	22600	6420	6480	7290	13800	16400	12600	10600	5210
17	19600	12900	21700	22400	6180	6500	8710	13100	17900	12500	10400	4970
18	20000	15700	21700	22300	6000	6530	10600	12400	15700	12400	10200	11200
19	19500	13000	21800	22300	6030	6490	11400	12500	13700	14800	5720	14200
20	19100	19600	21800	22000	6080	6540	13200	15800	12900	19200	7150	14600
21	20000	22500	22000	22000	5880	6580	15600	18700	13700	17900	14800	14900
22	17000	22500	22300	22300	5980	7000	15500	16600	17900	13400	19100	11000
23	9480	22500	22300	22400	5980	7040	14900	15400	15500	11700	18900	7700
24	9300	22600	22400	22200	5950	7230	14100	16800	13700	12200	17700	5310
25	10500	22600	22200	22800	5860	7210	12800	15300	13100	10500	19500	10600
26	10500	22500	22200	23400	5860	7140	11500	14100	13100	10400	19600	12100
27	9140	22500	22300	23100	5810	7080	10500	13800	12300	10300	15600	11700
28	5260	22600	22200	22900	5740	6820	9940	13800	11800	10000	14700	11900
29	5220	22400	22200	22800	5830	6850	9470	14200	10900	5800	14600	12200
30	5130	22200	22100	22800	---	6760	9020	17000	10800	5630	12100	8350
31	5150	---	21800	22400	---	6630	---	20900	---	12600	10200	---
TOTAL	415480	420770	674900	643910	285410	197650	275670	394160	432200	376820	400830	295570
MEAN	13400	14030	21770	20770	9842	6376	9189	12710	14410	12160	12930	9852
MAX	20100	22600	23000	23500	22300	7230	15600	20900	18300	19200	19600	14900
MIN	5130	5530	18100	8030	5740	5700	6320	8900	10800	5630	5450	4970
AC-FT	824100	834600	1339000	1277000	566100	392000	546800	781800	857300	747400	795000	586300

CAL YR 1983 TOTAL 5613430 MEAN 15380 MAX 28200 MIN 5130 AC-FT 11134000
WTR YR 1984 TOTAL 4813370 MEAN 13150 MAX 23500 MIN 4970 AC-FT 9547000

12321500 BOUNDARY CREEK NEAR PORTHILL, ID
(International gaging station)

LOCATION.--Lat 48°59'50", long 116°34'05", in SW¼NW¼SW¼ sec.11, T.65 N., R.2 W., Boundary County, Hydrologic Unit 17010104, on left bank near mouth of canyon, 0.2 mi south of international boundary, 3 mi west of Porthill, and at mile 3.5.

DRAINAGE AREA.--97 mi^2, approximately.

PERIOD OF RECORD.--May 1928 to current year (no winter records 1929, 1930).

GAGE.--Water-stage recorder. Altitude of gage is 1,770 ft from topographic map. Prior to Apr. 24, 1929, nonrecording gage at site 140 ft upstream at different datum.

REMARKS.--Records good except for winter period which are poor. Diversion above station.

COOPERATION.--This station is maintained by the United States under agreement with Canada. Three discharge measurements per year furnished by Water Survey of Canada.

AVERAGE DISCHARGE.--54 years (water years 1930-84), 199 ft^3/s, 27.86 in./yr; 144,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,540 ft^3/s June 2, 1968, gage height, 6.00 ft, from rating curve extended above 2,000 ft^3/s; minimum, 5 ft^3/s some time between Nov. 10 and Dec. 3, 1936; minimum gage height, 0.24 ft Nov. 22, 1952.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,300 ft^3/s and maximum(*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 3	2400	*2120	*4.80	May 30	1900	1920	4.66
May 19	2345	1600	4.34	June 15	2045	1620	4.32

Minimum discharge, 21 ft^3/s Sept. 19-20; gage height, 1.03 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Jan. 4-6, Jan. 13-23)

1.0	19	2.5	320
1.2	34	3.0	560
1.3	42	3.5	890
1.6	81	4.0	1310
2.0	162	5.0	2340

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	144	88	55	69	50	91	223	799	336	50	24
2	39	135	78	60	69	50	93	280	743	308	48	26
3	38	701	78	65	69	48	98	269	701	286	47	25
4	37	865	80	77	69	44	100	245	715	266	47	25
5	36	348	80	150	68	54	125	239	883	253	55	24
6	35	340	80	250	68	48	138	229	799	234	50	54
7	35	288	84	244	68	49	121	245	820	202	45	44
8	34	237	86	78	68	50	121	290	1030	183	42	34
9	34	209	90	67	64	52	117	426	954	170	41	36
10	34	194	96	63	60	58	115	349	778	158	38	32
11	33	274	94	60	58	70	109	328	785	145	39	31
12	33	279	92	57	58	70	106	345	906	134	36	33
13	33	239	90	55	58	68	104	440	906	124	35	32
14	33	215	86	53	57	68	106	656	968	116	34	28
15	33	210	84	52	56	69	138	662	1170	108	33	25
16	33	210	80	51	51	70	242	608	1120	101	32	25
17	33	236	75	51	47	74	426	554	916	94	31	24
18	38	220	70	52	56	74	421	560	754	87	34	23
19	36	201	60	53	56	74	449	906	680	82	39	22
20	41	191	50	56	56	75	522	1290	641	78	33	26
21	40	175	45	62	54	108	474	848	873	75	31	54
22	98	165	40	78	52	113	485	701	690	72	29	34
23	125	159	39	95	51	108	416	1090	576	68	28	30
24	72	154	37	121	51	106	349	813	596	66	27	28
25	60	152	37	138	50	100	313	668	617	62	26	27
26	56	142	37	134	48	96	280	662	584	60	26	26
27	53	138	37	125	52	93	258	674	538	58	25	25
28	51	119	38	123	51	93	251	806	460	56	25	25
29	49	108	40	100	50	90	229	1130	526	55	24	25
30	49	100	43	70	---	91	226	1590	404	57	24	25
31	113	---	48	69	---	91	---	1140	---	53	24	---
TOTAL	1473	7148	2062	2764	1684	2304	7023	19266	22932	4147	1098	892
MEAN	47.5	238	66.5	89.2	58.1	74.3	234	621	764	134	35.4	29.7
MAX	125	865	96	250	69	113	522	1590	1170	336	55	54
MIN	33	100	37	51	47	44	91	223	404	53	24	22
AC-FT	2920	14180	4090	5480	3340	4570	13930	38210	45490	8230	2180	1770

CAL YR 1983	TOTAL	97686	MEAN	268	MAX	1870	MIN	33	AC-FT	193800
WTR YR 1984	TOTAL	72793	MEAN	199	MAX	1590	MIN	22	AC-FT	144400

12322000 KOOTENAI RIVER AT PORTHILL, ID
(International gaging station)

LOCATION.--Lat 49°00'00", long 116°30'10", in NE¼NW¼SW¼ sec.8, T.65 N., R.1 W., Boundary County, Hydrologic Unit 17010104, on right bank 300 ft south of international boundary at Porthill, and at mile 105.63.

DRAINAGE AREA.--13,700 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to July 1904 and October 1927 to March 1928 (elevations only), and April 1928 to current year in reports of Geological Survey. October 1924 to September 1927 (gage heights only) in reports of Water Survey of Canada, Department of Energy, Mines and Resources.

REVISED RECORDS.--SWD ID 1971-75(m).

GAGE.--Water-stage recorder. Datum of gage is 1,700.00 ft Topographic Division Datum of 1928. Gage readings have been reduced to that datum. National Geodetic Vertical Datum of 1929 and datum of Geodetic Survey of Canada are 0.03 ft higher. Prior to May 17, 1928, nonrecording gages at approximately same site. Datum of gages prior to July 28, 1928, 38.34 ft higher, except in 1904 when different datum was used.

REMARKS.--Records good except for those below 10,000 ft^3/s, which are poor. Daily discharge represents entire flow passing international boundary, and is computed by adding tributary inflow for intervening area to flow at station near Copeland and correcting for channel storage between stations near Copeland and at Porthill. Boundary dike of Reclamation Farm and U.S. Forest Service roadway dike (south side of Boundary Creek) remained intact and flow of river was confined throughout year to main channel on which gage is located. Elevations affected by backwater from Kootenay Lake. No drainage dike failed during year. Flow regulated by Libby Dam started on Mar. 21, 1972.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

AVERAGE DISCHARGE.--56 years, 15,950 ft^3/s, 15.81 in./yr, 11,560,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 125,000 ft^3/s June 1, 1948; maximum elevation, 1,767.61 ft June 7, 1961; minimum daily discharge, 1,380 ft^3/s Feb. 8, 1936; minimum elevation, 1,738.21 ft Apr. 3, 1944.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 1,772.7 ft in June 1894, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 23,700 ft^3/s Jan. 26; maximum elevation, 1,748.84 ft June 29; minimum daily discharge, 5,080 ft^3/s Sept. 17; minimum elevation, 1,739.88 ft Apr. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11300	5950	22300	22000	22500	5940	6870	9540	20500	11100	12300	9950
2	7100	11000	22200	22100	22200	6060	6710	10000	17400	10700	16700	8440
3	6920	8050	22400	22300	22100	6040	6580	10600	15900	14700	19000	8310
4	13500	11400	22700	22300	17900	6080	6580	10400	15400	16600	16600	8410
5	14300	10500	22800	23400	8330	5970	6680	10000	15700	13200	9620	9390
6	14600	8960	22800	14400	6930	5890	7050	9780	16100	11800	6100	10700
7	14500	9390	22800	9410	6750	5920	7200	9590	15800	10600	11000	14000
8	14600	8530	22900	8670	14500	5920	7240	9720	16700	8600	15600	13200
9	8900	7860	23000	8200	19700	5880	7430	10300	18200	8260	16500	8280
10	8540	7460	23200	18600	20400	6040	7340	10500	18000	10700	16200	7070
11	17200	7890	23200	23200	16800	6120	7360	10500	16900	14500	9490	8260
12	19400	8560	22500	23300	7340	6140	7210	10800	16900	17100	5960	8310
13	19900	8190	18900	23300	6760	6340	7190	12900	16600	18200	5640	8180
14	20100	8040	18400	23200	6600	6580	7070	13200	16900	14800	10600	9250
15	20000	12200	18300	22500	6380	6680	7190	15000	18000	13200	10700	9060
16	20100	12800	19200	22700	6540	6690	7880	15200	18900	13000	10700	5430
17	19600	13500	21800	22500	6320	6710	9610	14400	20000	12800	10500	5080
18	20000	16100	21900	22500	6180	6740	11400	13800	17700	12700	10300	11100
19	19500	13700	22000	22400	6210	6690	12400	14700	15500	15000	5990	14100
20	19200	19900	21900	22200	6260	6760	14300	18500	14500	19200	7240	14600
21	20000	22700	22100	22200	6020	6870	16500	20500	15800	18000	14600	14900
22	17300	22900	22400	22500	6120	7300	16600	18500	19300	13900	18900	11200
23	10200	22900	22400	22700	6110	7390	16000	18100	17000	12000	18900	7900
24	9520	23000	22500	22600	6100	7550	15000	18700	15300	12400	17900	5500
25	10600	23000	22300	23200	6020	7550	13700	17100	14600	10800	19400	10500
26	10600	22900	22200	23700	5990	7440	12400	15900	14600	10600	19600	12100
27	9290	22900	22300	23500	5980	7400	11300	15600	13700	10500	15800	11800
28	5540	22900	22300	23300	5890	7140	10700	15900	13000	10100	14800	11900
29	5390	22700	22300	23000	5980	7120	10100	16900	12200	6060	14700	12200
30	5300	22500	22200	23000	---	7050	9690	20500	11800	5740	12300	8550
31	5510	---	21900	22600	---	6900	---	23200	---	12500	10400	---
TOTAL	418510	438380	680100	651480	290910	204900	293280	440330	488900	389360	404040	297670
MEAN	13500	14610	21940	21020	10030	6610	9776	14200	16300	12560	13030	9922
MAX	20100	23000	23200	23700	22500	7550	16600	23200	20500	19200	19600	14900
MIN	5300	5950	18300	8200	5890	5880	6580	9540	11800	5740	5640	5080
AC-FT	830100	869500	1349000	1292000	577000	406400	581700	873400	969700	772300	801400	590400

CAL YR 1983 TOTAL 5862020 MEAN 16060 MAX 32400 MIN 5300 AC-FT 11627000
WTR YR 1984 TOTAL 4997860 MEAN 13660 MAX 23700 MIN 5080 AC-FT 9913000

12322000 KOOTENAI RIVER AT PORTHILL, ID--Continued
(International gaging station)

GAGE HEIGHT (FEET ABOVE DATUM) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44.17	45.04	47.03	46.72	45.93	42.51	40.04	40.99	45.85	48.55	45.57	44.36
2	43.86	45.33	46.98	46.70	45.82	42.47	39.98	41.02	45.37	48.32	46.01	44.25
3	43.73	45.13	46.99	46.71	45.70	42.47	39.97	41.08	45.13	48.42	46.34	44.20
4	44.31	45.79	47.01	46.77	45.42	42.36	39.99	41.04	45.02	48.55	46.31	44.17
5	44.48	45.93	47.00	46.99	44.40	42.24	40.03	41.00	45.08	48.08	45.56	44.18
6	44.58	45.83	47.02	46.70	44.31	42.14	40.09	40.97	45.25	47.93	45.19	44.21
7	44.65	45.93	47.01	45.93	44.27	41.99	40.13	40.95	45.27	47.74	45.49	44.74
8	44.69	45.86	47.04	45.84	44.66	41.83	40.22	40.99	45.52	47.40	45.95	44.78
9	44.22	45.76	47.09	45.76	45.13	41.73	40.18	41.10	46.08	47.13	46.03	44.42
10	44.17	45.73	47.17	46.11	45.06	41.59	40.12	41.18	46.20	47.05	46.02	44.30
11	44.86	45.76	47.21	46.93	44.66	41.47	40.07	41.17	46.12	47.25	45.44	44.37
12	45.34	45.79	47.25	46.96	43.48	41.37	40.01	41.20	46.17	47.39	45.03	44.32
13	45.52	45.76	46.78	46.92	43.32	41.34	39.98	41.31	46.35	47.48	44.82	44.30
14	45.66	45.69	46.64	46.83	43.18	41.31	39.93	41.55	46.57	47.15	45.06	44.34
15	45.79	46.09	46.54	46.72	43.12	41.23	39.91	42.01	47.13	46.82	44.95	44.33
16	45.89	46.22	46.49	46.71	43.13	41.18	39.99	42.35	47.68	46.64	44.81	44.01
17	45.96	46.34	46.72	46.68	43.09	41.15	40.38	42.54	48.13	46.48	44.68	43.90
18	46.06	46.63	46.69	46.61	43.02	41.11	40.86	42.61	47.95	46.39	44.66	44.23
19	46.15	46.33	46.66	46.59	42.95	41.09	41.15	42.78	47.91	46.42	44.33	44.59
20	46.17	46.68	46.62	46.51	42.88	41.05	41.56	43.74	47.89	46.78	44.31	44.72
21	46.35	47.18	46.58	46.47	42.88	41.04	42.08	44.46	48.06	46.88	44.81	44.93
22	46.36	47.21	46.51	46.46	42.86	41.05	42.27	44.28	48.71	46.28	45.34	44.76
23	45.68	47.24	46.44	46.42	42.85	40.93	42.28	44.29	48.59	45.99	45.41	44.50
24	45.61	47.28	46.38	46.35	42.81	40.86	42.23	44.64	48.53	45.87	45.22	44.25
25	45.71	47.31	46.41	46.31	42.77	40.72	41.99	44.45	48.62	45.60	45.50	44.56
26	45.72	47.26	46.50	46.37	42.74	40.62	41.70	44.23	48.66	45.52	45.57	44.74
27	45.69	47.21	46.62	46.26	42.66	40.47	41.51	44.11	48.64	45.45	45.30	44.72
28	45.41	47.19	46.69	46.16	42.61	40.32	41.37	44.09	48.59	45.44	45.24	44.79
29	45.31	47.16	46.72	46.19	42.57	40.25	41.25	44.26	48.67	45.21	45.18	44.88
30	45.21	47.12	46.77	46.16	---	40.15	41.10	45.11	48.76	45.27	44.85	44.61
31	45.10	---	46.73	46.05	---	40.09	---	46.19	---	45.62	44.51	---
MEAN	45.24	46.33	46.78	46.48	43.73	41.29	40.75	42.64	47.08	46.81	45.27	44.45
MAX	46.36	47.31	47.25	46.99	45.93	42.51	42.28	46.19	48.76	48.55	46.34	44.93
MIN	43.73	45.04	46.38	45.76	42.57	40.09	39.91	40.95	45.02	45.21	44.31	43.90

WTR YR 1984 MEAN 44.74 MAX 48.76 MIN 39.91

12322000 KOOTENAI RIVER AT PORTHILL, ID--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-50, 1963 to current year.
PERIOD OF DAILY RECORD.--
  SPECIFIC CONDUCTANCE: October 1983 to current year.
  WATER TEMPERATURES: January 1949 to September 1950, May 1963 to current year.
  SUSPENDED SEDIMENT DISCHARGE: October 1983 to current year.
INSTRUMENTATION.--Temperature recorder since May 23, 1963.
EXTREMES FOR PERIOD OF DAILY RECORD.--
  WATER TEMPERATURES: Maximum, 23.5°C July 27, 1975; minimum, 0.0°C on many days during winter months.
EXTREMES FOR CURRENT YEAR.--
  SPECIFIC CONDUCTANCE: Maximum daily, 261 micromho/cm Feb. 15, 1984; minimum daily, 92 micromho/cm June 22, 1984.
  WATER TEMPERATURES: Maximum, 19.5°C Aug. 1-2; minimum, 2.0°C Jan. 19-21, Feb.3-10.
  SEDIMENT CONCENTRATIONS: Maximum daily, 9 mg/L Dec. 20, Jan. 20, 29; minimum daily 2 mg/L on many days.
  SEDIMENT LOADS: Maximum daily, 571 tons Jan. 27; minimum daily, 29 tons Oct. 29-30, Sept. 16.
REMARKS.--Miscellaneous chemical data published for water years 1949-50. PS-69 sampler could not be correlated with cross-section. Sediment record estimated using cross-section, sediment transport curve, and comparison with sediment concentrations from upstream station. Record considered fair (80 percent confidence).

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV											
09...	1130	7810	114	7.8	2.5	8.0	11.3	102	250	--	54
JAN											
06...	1030	15100	200	8.1	1.5	5.0	12.6	105	290	200	110
MAR											
27...	1100	7830	195	7.3	11.5	7.5	12.2	108	--	--	90
MAY											
18...	0945	13000	112	7.7	15.5	8.0	11.8	106	22	K10	57
AUG											
01...	1230	13100	162	8.6	29.0	20.0	10.0	118	24	280	100
SEP											
21...	1245	14300	177	8.1	12.0	14.0	11.9	124	110	390	110

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV											
09...	15	3.9	1.5	6	.0	.30	50	8.9	1.1	<.10	5.4
JAN											
06...	32	8.5	2.5	4	.1	.60	100	19	2.2	.10	4.9
MAR											
27...	25	6.7	2.5	6	.1	.60	84	14	1.5	<.10	7.0
MAY											
18...	16	4.2	1.9	7	.1	.30	51	8.9	1.2	<.10	7.1
AUG											
01...	29	7.5	2.5	5	.1	2.0	89	15	1.0	.10	3.2
SEP											
21...	31	7.8	2.2	4	.0	1.1	93	17	2.0	.10	3.2

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV										
09...	67	66	.09	1410	<.10	.040	.50	.010	.010	<.010
JAN										
06...	124	130	.17	5060	<.10	<.010	.20	.010	.010	.010
MAR										
27...	109	110	.15	2300	.31	.160	.20	.030	.010	.030
MAY										
18...	63	71	.09	2210	.13	.040	.30	.030	.010	.030
AUG										
01...	123	110	.17	4350	.14	.090	.40	.440	.430	.020
SEP										
21...	121	120	.16	4670	<.10	.030	.20	<.010	<.010	<.010

K Results based on counts outside ideal colony range.

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12322000 KOOTENAI RIVER AT PORTHILL, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV 09...	<1	30	21	<.5	1	<1	<3	8	29	1
MAR 27...	<1	10	36	<.5	<1	<1	<3	5	28	2
MAY 18...	<1	20	24	1	<1	2	<3	4	22	20
SEP 21...	<1	<10	42	1	1	<1	<3	12	9	3

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 09...	21	4	.2	<10	<1	<1	1	50	<6	5
MAR 27...	4	16	.2	<10	<1	<1	<1	85	<6	18
MAY 18...	<4	6	.6	<10	6	<1	<1	53	<6	18
SEP 21...	8	2	<.1	<10	1	<1	<1	100	<6	19

DATE	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 09...	11	--
JAN 06...	8	--
FEB 03...	7	--
MAR 27...	5	--
APR 18...	7	--
MAY 18...	6	96
JUN 26	184	92
AUG 01...	7	83
SEP 21...	3	--

12322000 KOOTENAI RIVER AT PORTHILL, ID--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	221	218	204	---	233	226	202	142	104	118	239	234
2	221	213	205	---	227	228	198	143	106	124	225	233
3	224	213	211	---	226	228	199	145	103	127	235	238
4	222	224	211	---	252	227	202	151	97	129	237	236
5	219	198	213	---	251	230	204	153	94	131	244	233
6	217	196	216	241	251	232	202	158	99	135	248	231
7	218	193	213	239	249	230	203	159	94	151	238	227
8	219	---	258	239	251	228	205	157	95	160	243	227
9	216	182	260	240	256	229	205	160	98	171	243	227
10	219	138	242	231	240	227	205	160	99	177	246	226
11	216	138	242	232	233	226	205	159	100	185	239	226
12	217	142	244	219	239	226	203	160	95	186	234	227
13	215	138	247	222	248	226	195	161	101	185	241	221
14	215	138	242	240	252	227	194	160	102	195	234	219
15	214	143	237	239	261	223	202	163	106	205	234	221
16	218	144	234	236	260	238	199	161	106	206	231	222
17	220	146	245	236	253	217	203	156	106	212	224	221
18	220	147	236	235	249	221	198	150	106	219	235	221
19	218	173	241	237	242	216	205	141	106	219	231	215
20	220	166	238	242	244	215	204	136	107	216	231	222
21	222	160	239	244	238	214	197	131	107	215	230	231
22	223	153	242	240	232	212	189	130	92	218	232	231
23	222	176	---	242	233	209	178	130	110	218	222	219
24	221	180	---	240	230	205	166	121	106	221	221	219
25	224	185	---	242	228	205	157	117	113	216	222	222
26	219	187	---	236	229	204	150	113	108	225	222	215
27	223	191	---	236	229	205	144	111	113	223	221	214
28	227	193	---	234	230	202	142	109	118	226	222	213
29	213	198	---	233	227	200	139	109	111	219	222	220
30	213	200	---	230	---	196	139	105	114	215	240	218
31	215	---	---	229	---	198	---	105	---	220	239	---
MEAN	219	175	233	236	241	218	188	141	104	189	233	224

WTR YR 1984 MEAN 199 MAX 261 MIN 92

KOOTENAI RIVER BASIN

12322000 KOOTENAI RIVER AT PORTHILL, ID--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	13.0	13.0	8.5	8.5	6.5	6.0	4.0	3.5	3.0	3.0	4.0	4.0
2	13.0	12.0	8.5	8.5	6.0	5.5	4.0	4.0	3.0	3.0	4.5	4.0
3	12.0	12.0	8.5	8.5	5.5	5.5	4.5	4.0	3.0	2.0	4.5	4.0
4	13.0	12.0	8.5	8.0	5.5	5.0	4.5	4.5	2.0	2.0	4.5	4.0
5	13.0	12.0	8.5	8.0	5.5	5.0	4.5	4.5	2.0	2.0	4.5	4.0
6	12.0	12.0	8.5	8.5	5.5	5.5	5.0	4.5	3.0	2.0	4.5	4.0
7	12.0	12.0	9.0	9.0	5.5	5.5	4.5	4.5	3.0	2.0	5.0	4.5
8	12.0	12.0	9.0	8.5	5.5	5.5	5.0	5.0	2.0	2.0	4.5	4.5
9	12.0	11.5	8.5	8.0	5.5	5.0	5.0	5.0	2.0	2.0	5.0	4.5
10	11.5	11.5	8.0	7.0	5.5	5.0	5.0	4.0	3.5	2.0	5.0	5.0
11	11.5	11.5	7.0	6.5	5.5	5.5	4.0	3.5	3.5	3.5	5.5	5.0
12	11.5	11.0	6.5	6.5	5.5	5.5	4.0	3.5	4.0	3.5	5.5	5.5
13	11.0	11.0	6.5	6.0	5.5	5.5	4.0	4.0	4.0	4.0	5.5	5.0
14	11.0	10.5	6.0	6.0	5.5	5.5	4.0	3.5	4.0	4.0	5.5	5.0
15	10.5	10.0	6.0	6.0	5.5	5.5	3.5	3.0	4.0	4.0	5.5	5.5
16	10.0	10.0	6.5	6.0	5.5	5.0	3.0	3.0	4.0	3.5	6.0	5.5
17	10.0	10.0	6.5	6.5	5.0	4.5	3.0	3.0	3.5	3.5	6.0	5.5
18	10.0	9.5	7.0	6.5	4.5	4.5	3.0	3.0	3.5	3.5	5.5	5.5
19	9.5	9.5	8.0	7.0	4.5	4.0	3.0	2.0	3.5	3.5	6.0	5.5
20	9.5	9.0	8.0	8.0	4.0	3.5	2.0	2.0	3.5	3.5	6.0	6.0
21	9.0	9.0	8.0	7.0	3.5	3.5	2.0	2.0	3.5	3.5	6.0	6.0
22	9.0	9.0	8.0	7.0	3.5	3.5	3.0	3.0	3.5	3.5	6.5	6.0
23	9.0	9.0	8.0	7.0	4.0	3.5	3.0	3.0	3.5	3.0	6.5	6.5
24	9.0	9.0	7.0	7.0	3.5	3.0	3.0	3.0	3.5	3.5	7.0	6.5
25	9.0	9.0	7.0	6.5	3.0	3.0	3.5	3.0	3.5	3.5	6.5	6.5
26	9.0	8.5	6.5	6.5	3.0	3.0	3.5	3.5	4.0	3.5	6.5	6.5
27	9.5	8.5	6.5	6.5	3.5	3.0	3.5	3.5	4.0	4.0	7.0	6.5
28	8.5	8.5	7.0	6.5	3.5	3.5	3.5	3.5	4.0	4.0	6.5	6.0
29	8.5	8.5	7.0	6.5	3.5	3.5	3.5	3.5	4.0	4.0	6.0	6.0
30	8.5	8.5	6.5	6.5	3.5	3.5	3.5	3.5	---	---	6.5	6.0
31	8.5	8.5	---	---	3.5	3.5	3.5	3.0	---	---	7.0	6.0
MONTH	13.0	8.5	9.0	6.0	6.5	3.0	5.0	2.0	4.0	2.0	7.0	4.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.0	6.5	8.0	7.0	11.0	10.5	15.5	15.5	19.5	19.5	13.5	13.5
2	8.5	7.0	8.0	7.0	10.5	9.5	16.0	15.5	19.5	18.0	14.0	13.5
3	8.0	7.0	8.5	8.0	9.5	9.5	15.5	15.0	18.0	17.0	14.0	13.5
4	8.0	7.0	9.5	8.5	9.5	9.5	15.0	14.5	17.0	16.5	14.5	13.0
5	8.0	7.0	9.0	9.0	10.0	9.5	15.0	14.5	16.5	16.5	15.0	14.0
6	8.0	7.0	9.0	8.5	10.0	10.0	15.5	15.0	17.0	16.5	15.5	14.5
7	7.0	7.0	9.0	8.5	10.5	10.5	15.0	14.5	17.0	16.5	15.0	15.0
8	8.0	7.0	9.0	8.5	10.5	10.0	16.0	15.0	18.0	17.0	15.5	15.0
9	8.0	7.0	9.0	8.5	10.0	10.0	16.0	15.5	18.0	17.0	15.5	14.5
10	8.0	7.0	9.5	9.0	10.5	10.0	16.5	16.0	17.0	16.0	14.5	14.0
11	7.0	6.5	9.5	9.0	10.5	10.0	16.5	16.5	16.5	16.0	14.0	14.0
12	7.0	6.5	9.0	9.0	10.0	10.0	17.0	16.5	16.5	16.0	14.0	13.5
13	8.0	7.0	9.5	9.0	11.0	10.0	17.0	16.0	17.0	16.5	14.0	14.0
14	8.5	7.0	9.0	9.0	11.5	11.0	16.0	16.0	17.0	16.5	14.5	14.0
15	8.5	8.0	9.0	9.0	11.5	11.5	16.0	16.0	18.0	17.0	14.5	14.0
16	9.0	8.0	9.5	9.0	11.5	11.5	16.0	16.0	18.5	15.0	14.5	14.0
17	9.0	8.5	9.5	9.0	13.0	12.0	17.0	16.0	18.5	18.0	14.0	14.0
18	9.0	9.0	8.5	8.5	13.0	13.0	18.0	16.5	18.0	17.0	14.5	14.0
19	10.0	9.0	8.5	8.5	13.0	13.0	18.0	17.0	18.0	17.0	14.5	14.5
20	9.5	9.0	9.0	8.5	13.5	13.0	18.0	17.0	18.0	16.5	15.0	14.5
21	9.0	8.5	9.0	9.0	13.5	13.0	17.0	16.5	19.0	17.0	15.0	14.5
22	8.5	8.0	9.0	8.0	13.0	13.0	16.5	16.0	18.0	17.0	14.5	13.5
23	8.0	7.0	8.5	8.0	13.0	12.0	16.0	15.5	17.0	16.0	13.5	13.0
24	8.0	7.0	8.5	8.5	12.0	11.5	---	---	16.0	15.5	13.0	12.0
25	8.0	8.0	9.0	8.5	12.0	11.5	---	---	16.0	15.5	12.0	12.0
26	8.0	6.5	9.0	8.5	13.0	12.0	---	---	15.5	15.5	12.0	11.5
27	7.0	6.5	9.0	8.5	14.5	13.0	---	---	15.5	15.0	12.0	11.5
28	7.0	6.5	9.5	9.0	15.0	14.5	---	---	15.5	15.0	13.0	11.5
29	7.0	6.5	10.0	9.5	15.5	15.0	---	---	15.0	14.5	13.5	13.0
30	7.0	6.5	10.5	10.0	15.5	15.5	---	---	15.0	14.0	13.0	13.0
31	---	---	11.0	10.5	---	---	---	---	14.0	13.5	---	---
MONTH	10.0	6.5	11.0	7.0	15.5	9.5	18.0	14.5	19.5	13.5	15.5	11.5
YEAR	19.5	2.0										

12322000 KOOTENAI RIVER AT PORTHILL, ID--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	11300	4	122	5950	2	32	22300	8	492
2	7100	3	58	11000	4	119	22200	8	480
3	6920	3	56	8050	3	65	22400	8	484
4	13500	5	182	11400	4	123	22700	8	490
5	14300	6	232	10500	4	113	22800	8	492
6	14600	5	197	8960	4	97	22800	8	492
7	14500	5	196	9390	4	101	22800	8	492
8	14600	5	197	8530	3	69	22900	8	495
9	8900	3	72	7860	3	64	23000	8	497
10	8540	3	69	7460	3	60	23200	8	501
11	17200	6	279	7890	3	64	23200	8	501
12	19400	8	419	8560	3	69	22500	8	486
13	19900	7	376	8190	3	66	18900	7	357
14	20100	7	380	8040	3	65	18400	7	348
15	20000	7	378	12200	5	165	18300	7	346
16	20100	7	380	12800	5	173	19200	7	363
17	19600	7	370	13500	5	182	21800	8	471
18	20000	7	378	16100	6	261	21900	8	473
19	19500	7	369	13700	5	185	22000	8	475
20	19200	7	363	19900	7	376	21900	9	532
21	20000	7	378	22700	8	490	22100	8	477
22	17300	6	280	22900	8	495	22400	8	484
23	10200	4	110	22900	8	495	22400	8	484
24	9520	4	103	23000	8	497	22500	8	486
25	10600	4	114	23000	8	497	22300	8	482
26	10600	4	114	22900	8	495	22200	8	480
27	9290	3	75	22900	8	495	22300	8	482
28	5540	2	30	22900	8	495	22300	8	482
29	5390	2	29	22700	8	490	22300	8	482
30	5300	2	29	22500	8	486	22200	8	480
31	5510	2	30	---	---	---	21900	8	473
TOTAL	418510	---	6365	438380	---	7384	690100	---	14549
		JANUARY			FEBRUARY			MARCH	
1	22000	8	475	22500	8	486	5940	2	32
2	22100	8	477	22200	8	480	6060	2	33
3	22300	8	482	22100	8	477	6040	2	33
4	22300	8	482	17900	7	338	6080	2	33
5	23400	8	505	8330	3	67	5970	2	32
6	14400	5	194	6930	3	56	5890	2	32
7	9410	4	102	6750	3	55	5920	2	32
8	8670	3	70	14500	5	196	5920	2	32
9	8200	3	66	19700	7	372	5880	2	32
10	18600	7	352	20400	7	386	6040	2	33
11	23200	8	501	16800	7	318	6120	2	33
12	23300	8	503	7340	3	59	6140	2	33
13	23300	8	503	6760	3	55	6340	3	51
14	23200	8	501	6600	3	53	6580	3	53
15	22500	8	486	6380	3	52	6690	3	54
16	22700	8	490	6540	3	53	6690	3	54
17	22500	8	486	6320	3	51	6710	3	54
18	22500	8	486	6180	2	33	6740	3	55
19	22400	8	484	6210	3	50	6690	3	54
20	22200	9	539	6260	3	51	6760	3	55
21	22200	8	480	6020	2	33	6870	3	56
22	22500	8	486	6120	2	33	7300	3	59
23	22700	8	490	6110	2	33	7390	3	60
24	22600	8	488	6100	2	33	7550	3	61
25	23200	8	501	6020	2	33	7550	3	61
26	23700	8	512	5990	2	32	7440	3	60
27	23500	9	571	5980	2	32	7400	3	60
28	23300	8	503	5890	2	32	7140	3	58
29	23000	9	559	5980	2	32	7120	3	58
30	23000	8	497	---	---	---	7050	3	57
31	22600	8	488	---	---	---	6900	3	56
TOTAL	651480	---	13759	290910	---	3981	204900	---	1466

12322000 KOOTENAI RIVER AT PORTHILL, ID--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	6870	3	56	9540	4	103	20500	7	387
2	6710	3	54	10000	4	108	17400	6	282
3	6580	3	53	10600	4	114	15900	6	258
4	6580	3	53	10400	4	112	15400	6	249
5	6680	3	54	10000	4	108	15700	6	254
6	7050	4	76	9780	4	106	16100	6	261
7	7200	3	58	9590	4	104	15800	6	256
8	7240	3	59	9720	5	131	16700	6	271
9	7430	3	60	10300	4	111	18200	7	344
10	7340	3	59	10500	4	113	18000	7	340
11	7360	3	60	10500	4	113	16900	6	274
12	7210	3	58	10800	4	117	16900	6	274
13	7190	3	58	12900	5	174	16600	6	269
14	7070	3	57	13200	6	214	16900	6	274
15	7190	3	58	15000	6	243	18000	7	340
16	7880	3	64	15200	6	246	18900	7	357
17	9610	4	104	14400	5	194	20000	7	378
18	11400	4	123	13800	5	186	17700	6	287
19	12400	5	167	14700	5	198	15500	6	251
20	14300	5	193	18500	7	350	14500	5	196
21	16500	6	267	20500	7	387	15800	7	299
22	16600	6	269	18500	8	400	19300	7	365
23	16000	6	259	18100	7	342	17000	6	275
24	15000	6	243	18700	7	353	15300	6	248
25	13700	5	185	17100	6	277	14600	5	197
26	12400	6	201	15900	6	258	14600	5	197
27	11300	4	122	15600	6	253	13700	5	185
28	10700	4	116	15900	6	258	13000	5	175
29	10100	4	109	16900	6	274	12200	5	165
30	9690	4	105	20500	7	387	11800	4	127
31	---	---	---	23200	8	501	---	---	---
TOTAL	293280	---	3400	440330	---	6835	488900	---	8035
		JULY			AUGUST			SEPTEMBER	
1	11100	4	120	12300	5	166	9950	4	107
2	10700	4	116	16700	6	271	8440	3	68
3	14700	6	238	19000	7	359	8310	3	67
4	16600	6	269	16600	6	269	8410	3	68
5	13200	5	178	9620	4	104	9390	4	101
6	11800	4	127	6100	3	49	10700	4	116
7	10600	4	114	11000	4	119	14000	6	227
8	8600	3	70	15600	6	253	13200	5	178
9	8260	3	67	16500	6	267	8280	3	67
10	10700	4	116	16200	6	262	7070	3	57
11	14500	5	196	9490	4	102	8260	3	67
12	17100	6	277	5960	2	32	8310	3	67
13	18200	7	344	5640	2	30	8180	3	66
14	14800	5	200	10600	4	114	9250	4	100
15	13200	5	178	10700	4	116	9060	4	98
16	13000	5	175	10700	4	116	5430	2	29
17	12800	5	173	10500	4	113	5080	3	41
18	12700	5	171	10300	4	111	11100	4	120
19	15000	6	243	5990	2	32	14100	5	190
20	19200	7	363	7240	4	78	14600	5	197
21	18000	7	340	14600	5	197	14900	5	201
22	13900	5	188	18900	7	357	11200	4	121
23	12000	5	162	18900	7	357	7900	3	64
24	12400	5	167	17900	7	338	5500	2	30
25	10800	4	117	19400	7	367	10500	4	113
26	10600	4	114	19600	7	370	12100	5	163
27	10500	4	113	15800	6	256	11800	4	127
28	10100	4	109	14800	5	200	11900	4	129
29	6060	2	33	14700	5	198	12200	5	165
30	5740	2	31	12300	5	166	8550	3	69
31	12500	5	169	10400	4	112	---	---	---
TOTAL	389360	---	5278	404040	---	5881	297670	---	3213
YEAR	4997860		80146						

12322500 KOOTENAY LAKE AT KUSKONOOK, BRITISH COLUMBIA

LOCATION.--Lat 49°17'56", long 116°39'31", on east shore of lake at Kuskonook and at mile 74.5.

PERIOD OF RECORD.--April 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,735.20 ft National Geodetic Vertical Datum of 1929, which is the same at Porthill as datum of 1929, supplementary adjustment of 1947, and 0.03 ft higher than datum in use at station Kootenai River at Porthill. Prior to Apr. 25, 1938, nonrecording gage at same site at datum 3.00 ft higher.

REMARKS.--Elevation is subject to partial regulation by Corra Linn Dam on Kootenay River below outlet. Major inflow is from Kootenai River (see sta 12322000). Diversions for irrigation of about 14,600 acres above Kootenay Lake.

COOPERATION.--This station is maintained by Canada under agreement with the United States.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,762.42 ft June 9, 1961; minimum daily, 1,737.86 ft Apr. 5, 6, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,748.22 ft June 30; minimum daily, 1,739.26 ft Apr. 16.

GAGE HEIGHT (FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.38	44.66	45.21	44.97	43.91	42.16	39.46	40.12	43.49	47.92	44.84	43.79
2	43.38	44.65	45.15	44.83	43.81	42.10	39.42	40.05	43.59	47.71	44.98	43.75
3	43.29	44.70	45.14	44.86	43.74	42.08	39.41	40.04	43.59	47.52	45.01	43.72
4	43.32	44.97	45.11	44.96	43.89	41.98	39.41	40.04	43.57	47.39	45.09	43.66
5	43.41	45.16	45.11	45.06	43.96	41.86	39.45	40.05	43.59	47.28	45.06	43.63
6	43.48	45.27	45.13	45.33	43.94	41.74	39.48	40.06	43.66	47.22	44.95	43.60
7	43.56	45.30	45.13	45.37	43.88	41.58	39.51	40.06	43.75	47.13	44.88	43.76
8	43.63	45.30	45.15	45.33	43.67	41.43	39.57	40.07	43.98	46.93	44.91	43.86
9	43.65	45.28	45.18	45.25	43.45	41.32	39.52	40.09	44.26	46.71	44.91	43.95
10	43.64	45.27	45.25	45.08	43.29	41.16	39.46	40.11	44.43	46.49	44.94	43.93
11	43.63	45.26	45.32	44.99	43.18	41.05	39.42	40.11	44.54	46.33	44.93	43.88
12	43.75	45.25	45.36	44.97	43.04	40.95	39.38	40.11	44.66	46.27	44.72	43.85
13	43.93	45.25	45.33	44.95	42.91	40.87	39.35	40.11	44.81	46.23	44.55	43.55
14	44.07	45.23	45.24	44.91	42.81	40.81	39.30	40.14	45.06	46.16	44.41	43.80
15	44.18	45.27	45.12	44.86	42.77	40.74	39.26	40.35	45.44	45.99	44.27	43.79
16	44.29	45.38	45.05	44.83	42.75	40.69	39.26	40.68	45.93	45.84	44.13	43.74
17	44.41	45.42	44.96	44.80	42.71	40.64	39.40	40.99	46.33	45.73	44.04	43.62
18	44.53	45.41	44.90	44.77	42.65	40.59	39.56	41.18	46.59	45.62	44.04	43.55
19	44.63	45.37	44.85	44.73	42.59	40.57	39.70	41.33	46.74	45.50	44.04	43.61
20	44.74	45.28	44.79	44.66	42.54	40.52	39.83	41.60	46.81	45.45	43.92	43.70
21	44.86	45.27	44.69	44.63	42.55	40.49	40.00	41.95	46.90	45.50	43.82	43.89
22	45.01	45.29	44.58	44.60	42.53	40.43	40.18	42.25	47.11	45.41	43.85	44.03
23	45.04	45.36	44.49	44.50	42.49	40.32	40.34	42.46	47.27	45.27	43.90	44.06
24	45.05	45.42	44.45	44.41	42.45	40.22	40.43	42.60	47.42	45.09	43.92	43.97
25	45.06	45.42	44.50	44.33	42.42	40.09	40.45	42.65	47.56	44.97	43.97	43.90
26	45.08	45.35	44.66	44.25	42.37	39.98	40.41	42.63	47.65	44.90	44.04	43.94
27	45.09	45.31	44.76	44.20	42.32	39.84	40.37	42.59	47.71	44.84	44.15	43.99
28	45.05	45.31	44.83	44.14	42.26	39.72	40.32	42.55	47.75	44.86	44.24	44.04
29	44.95	45.29	44.88	44.15	42.21	39.62	40.27	42.55	47.89	44.91	44.16	44.09
30	44.86	45.26	44.90	44.10	---	39.52	40.20	42.77	48.05	44.99	44.00	44.10
31	44.75	---	44.89	44.03	---	39.48	---	43.17	---	44.86	43.87	---
MEAN	44.25	45.23	44.97	44.73	43.00	40.79	39.74	41.14	45.47	46.03	44.40	43.84
MAX	45.09	45.42	45.36	45.37	43.96	42.16	40.45	43.17	48.05	47.92	45.09	44.10
MIN	43.29	44.65	44.45	44.03	42.21	39.48	39.26	40.04	43.49	44.84	43.82	43.55

WTR YR 1984 MEAN 43.65 MAX 48.05 MIN 39.26

Note.--Add 1,700 ft to obtain elevations.

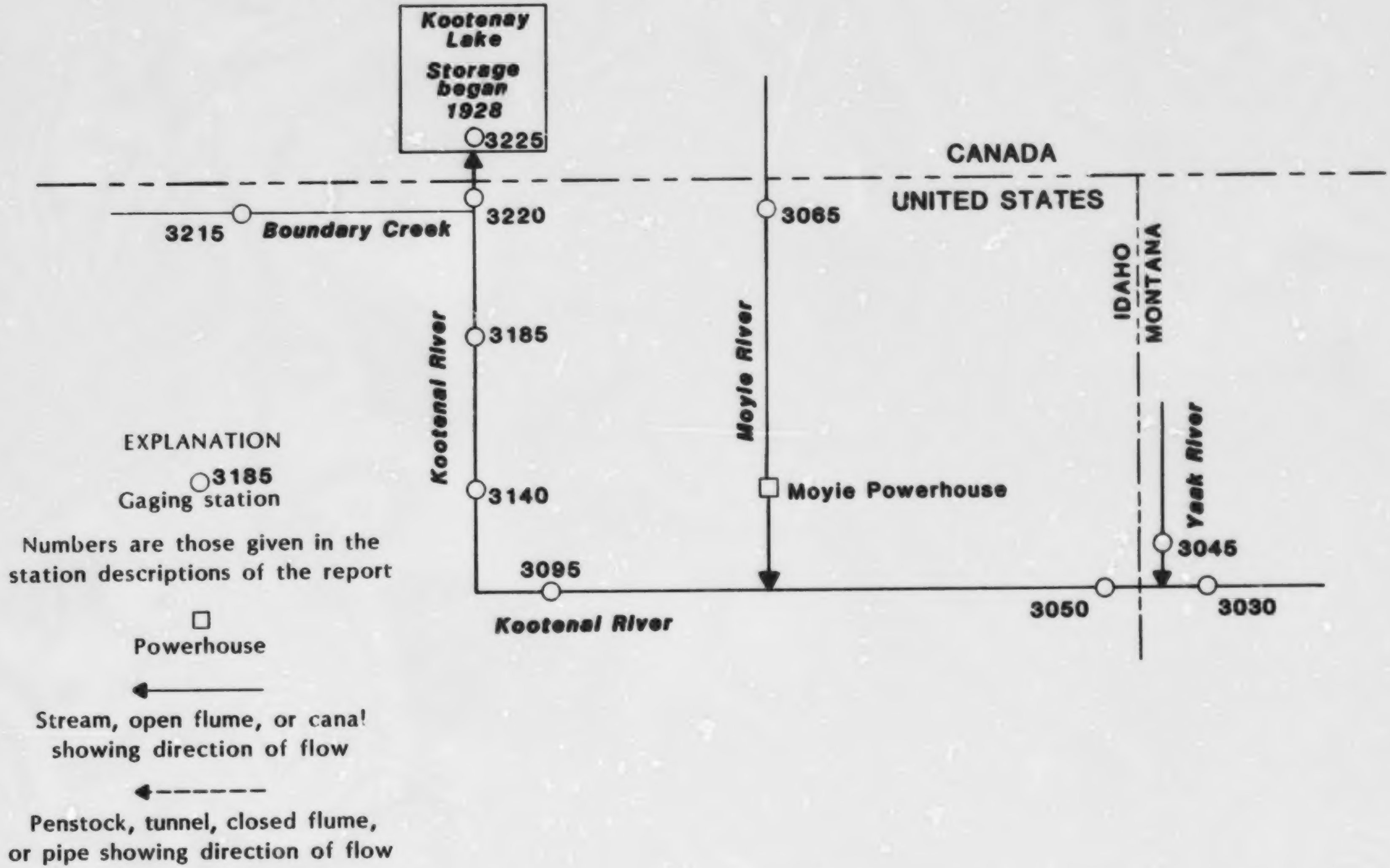
Kootenay Lake
Storage began 1928
3225
CANADA
UNITED STATES
3220
3215
Boundary Creek
3065
IDAHO
MONTANA
Kootenai River
3185
Moyie River
Yaak River
3140
Moyie Powerhouse
3045
3095
3050
3030
Kootenai River
EXPLANATION
3185
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow

Figure 12. -- Gaging stations in Kootenai River basin.

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12392000 CLARK FORK AT WHITEHORSE RAPIDS, NEAR CABINET, ID

LOCATION.--Lat 48°05'18", long 116°04'16", in SW1/4 NW1/4 sec.27, T.55 N., R.3 E., Bonner County, Hydrologic Unit 17010213, on right bank 0.8 mi downstream from Cabinet Gorge Dam at cableway, 2.1 mi downstream from Blue Creek, 6.1 mi southeast of Clark Fork, and at mile 149.1. Discharge computed at Whitehorse Rapids, 2.3 mi downstream.
DRAINAGE AREA.--22,073 mi2, based on revised area of 22,067 mi2 for site 0.4 mi upstream.
PERIOD OF RECORD.--September 1928 to current year. Prior to October 1952, published as "near Heron, Mont."
REVISED RECORDS.--WSP 1182: 1936. WSP 1736: 1931, 1936(M), 1937.
GAGE.--Water-stage recorder. Datum of gage is 2,060.00 ft National Geodetic Vertical Datum of 1929, levels by Washington Water Power Co. See WSP 1934 for history of changes made prior to Sept. 30, 1952. Water-stage recorder at site 0.4 mi upstream at datum 60.00 ft lower Oct. 1, 1952, to Sept. 30, 1964, and at present datum Oct. 1, 1964, to May 21, 1973.
REMARKS.--Records good. Flow regulated by Hungry Horse Reservoir, Flathead Lake, and Noxon Rapids Reservoir. Extreme diurnal fluctuation caused by powerplant at Cabinet Gorge Dam. Diversions above station for irrigation of about 354,000 acres. Discharge measurements indicate about 800 ft3/s ground-water inflow between Cabinet Gorge Dam and Whitehorse Rapids. Records given herein represent flow at Whitehorse Rapids, computed by adding 800 ft3/s to observed flows at the measuring cableway, and are considered comparable to records at former site near Heron, except for minor surface inflow from additional drainage area. To determine flow at Cabinet Gorge Dam, 800 ft3/s should be deducted from discharges published herein.
AVERAGE DISCHARGE.--56 years, 22,410 ft3/s, 16,240,000 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153,000 ft3/s May 29 to June 1, 1948; maximum gage height, 50.97 ft May 31, 1948, site and datum then in use; minimum observed, 270 ft3/s Aug. 12, 1952 (discharge measurement), at sites in use since October 1952, during filling of Cabinet Gorge Reservoir; minimum daily since reservoir filled, 762 ft3/s Sept. 2, 1962.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1894 reached a discharge of 195,000 ft3/s from floodmark, elevation of 2,137.1 ft, at site about 4 mi upstream and 0.1 mi below "near Heron" site.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 77,900 ft3/s June 25, gage height 21.47 ft; minimum recorded, 1,140 ft3/s Sept. 12, gage height 4.33 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14000	16300	16200	15500	20500	21500	10000	23600	63000	56000	9090	13000
2	11900	18600	16600	15300	21900	19000	15200	19500	67200	48500	18600	5120
3	17700	13600	12900	17900	12900	16700	11800	20300	64500	44200	12700	16400
4	15400	15200	13500	14200	16300	20700	13700	23900	67100	33300	10800	16100
5	18400	17500	15100	16500	15600	19900	15700	26400	65100	35300	10000	19500
6	15600	18100	13400	19900	17900	20600	17000	26800	61400	43800	11600	15300
7	17900	15300	20300	21800	17100	15100	10300	26100	63500	34500	14700	15400
8	18500	14600	15200	26300	18400	15100	12200	24900	61600	29400	12000	13500
9	13500	13600	14900	23500	20200	12000	17600	22100	35600	29600	13000	13600
10	15100	15600	19900	22200	14800	20200	18500	22300	60700	27400	13700	14900
11	16300	14500	15600	23800	21300	20700	15000	24200	62700	25900	12100	17100
12	16100	18100	21900	21800	14600	22000	14700	24700	64900	23800	7750	9990
13	17000	15500	9760	17100	12400	20300	12600	24300	64300	25300	7330	15900
14	15500	17000	11400	20200	22500	18000	15800	26300	47600	24900	9130	9810
15	16400	17100	15300	17900	13200	14800	11700	27300	46900	23400	12200	9510
16	19200	14400	14600	17900	17800	10400	13600	40200	52700	20200	11000	9610
17	17000	13800	7180	19800	18200	7490	13200	45900	62000	17100	16700	23700
18	9590	14200	6970	12300	14500	7210	18900	44900	64000	19800	7410	16600
19	17500	17700	10100	15200	16500	13700	29800	44800	61200	18700	7120	22700
20	16400	15900	12100	16500	13000	9900	31500	44100	52500	18100	10300	11600
21	18100	17700	11900	13800	21200	12700	25600	44400	51800	10300	11200	9340
22	10900	20200	9200	17800	19600	12900	22000	39700	60600	12800	7190	7780
23	18700	16700	8770	19700	13100	12100	25900	40000	67400	13900	8150	13900
24	17300	17000	9240	16400	11600	11000	25500	40700	66400	15700	13600	16700
25	10500	13200	5530	20900	4650	13300	32400	37600	58000	16900	12300	16200
26	17500	20500	9760	21400	11500	17500	27000	30900	50900	17500	7600	16900
27	15800	20500	13400	17300	15900	19300	34000	24000	47100	12200	10300	14230
28	16400	15500	13600	18200	23200	17700	26800	24100	52300	10600	12600	15200
29	14200	17000	15900	21400	18200	17300	19200	25600	65400	8770	14300	8360
30	11300	16800	14600	17100	---	8950	23800	26800	61700	14400	11700	8270
31	14800	---	16600	19000	---	9980	---	37000	---	19400	19900	---
TOTAL	482490	491300	414010	574600	472550	477030	581200	953400	1543300	751870	356270	420390
MEAN	15560	16380	13360	19540	16300	15390	19370	30750	51440	24250	11490	14010
MAX	19200	20500	21900	26300	23200	22000	34000	45900	67400	56000	19900	22700
MIN	9590	13200	5530	15800	4650	7210	10000	19500	35600	8770	7120	7780
AC-FT	957000	974500	821200	1140000	949200	946200	1153000	1891000	3061000	1491000	706700	833800

CAL YR 1983 TOTAL 7832300 MEAN 21460 MAX 80000 MIN 4170 AC-FT15535000
WTR YR 1984 TOTAL 7524410 MEAN 20560 MAX 67400 MIN 4650 AC-FT14925000

12392500 PEND OREILLE LAKE NEAR HOPE, ID

LOCATION.--Lat 48°16'35", long 116°20'47", in NW1/4 SE1/4 NW1/4 sec.21, T.57 N., R.1 E., Bonner County, Hydrologic Unit 17010214, 0.3 mi southeast of Trestle Creek and 2.5 mi northeast of Hope.

DRAINAGE AREA.--22,900 mi2, approximately (natural drainage area above mouth of lake at Sandpoint).

PERIOD OF RECORD.--March 1914 to current year. Published as "at Sandpoint" 1914-22. Records published for both sites September 1921 to September 1922. Published as "at Hope" September 1921 to December 1974.

REVISED RECORDS.--WSP 1122: 1946.

GAGE.--Water-stage recorder. Datum of gage is 2,000.00 ft National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations of that datum. Prior to Oct. 1, 1921, nonrecording gage at Sandpoint at datum 42.18 ft higher. Oct. 1, 1921, to Sept. 30, 1929, nonrecording gage "at Hope" site at datum 45.47 ft higher than present datum. Oct. 1, 1929, to Sept. 30, 1950, water-stage recorder "at Hope" site at datum 0.20 ft lower than present datum. Oct. 1, 1950, to Dec. 23, 1974, water-stage recorder "at Hope" site at present datum.

REMARKS.--Records excellent. Midnight readings are published. Regulation at Albeni Falls Dam beginning June 4, 1952. Contents shown is that above elevation 2,044.8 ft but does not include storage in Pend Oreille River above Albeni Falls Dam.

COOPERATION.--Capacity table furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 2,071.62 ft, present datum, June 9, 1948, contents, 2,462,000 acre-ft; minimum, 2,046.27 ft, present datum, Feb. 17, 1936, contents, 117,700 acre-ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 2,075.88 ft, present datum, June 1894, contents, 2,905,000 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2,062.80 ft Sept. 6, contents, 1,590,000 acre-ft; minimum, 2,054.68 ft Dec. 24, contents, 843,000 acre-ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

2,050	452,000
2,055	871,600
2,060	1,327,000
2,066	1,898,000

GAGE HEIGHT (FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.43	55.25	54.97	55.15	56.61	55.23	55.25	55.37	58.61	61.87	62.43	62.39
2	60.17	55.11	55.05	55.18	56.60	55.21	55.17	55.31	58.93	61.73	62.45	62.26
3	60.12	55.04	55.05	55.23	56.45	55.13	55.20	55.24	59.31	61.72	62.40	62.34
4	59.97	55.01	55.05	55.26	56.34	55.18	55.28	55.30	59.62	61.69	62.36	62.46
5	59.86	55.20	55.08	55.56	56.21	55.25	55.29	55.42	59.87	61.88	62.27	62.65
6	59.72	55.52	55.09	55.97	56.15	55.27	55.25	55.46	59.96	62.21	62.33	62.48
7	59.61	55.74	55.19	56.40	56.05	55.25	55.17	55.40	60.02	62.28	62.41	62.30
8	59.51	55.92	55.21	56.93	56.01	55.24	55.19	55.28	60.13	62.22	62.44	62.23
9	59.35	56.09	55.25	57.36	55.99	55.19	55.27	55.22	60.11	62.24	62.37	62.24
10	59.15	56.32	55.44	57.72	55.85	55.22	55.36	55.25	60.15	62.23	62.43	62.21
11	58.91	56.59	55.42	57.78	55.85	55.25	55.35	55.44	60.27	62.20	62.34	62.25
12	58.68	56.78	55.44	57.81	55.78	55.36	55.38	55.60	60.47	62.15	62.18	62.26
13	58.50	56.80	55.13	57.67	55.58	55.37	55.35	55.81	60.59	62.11	62.16	62.37
14	58.25	56.83	55.03	57.70	55.65	55.46	55.34	56.00	60.69	62.10	62.12	62.30
15	58.02	56.90	55.04	57.63	55.49	55.69	55.27	56.16	60.78	62.16	62.21	62.24
16	57.88	56.93	55.02	57.57	55.45	55.85	55.30	56.58	60.82	62.11	62.24	62.25
17	57.71	56.94	54.86	57.50	55.39	55.95	55.39	57.02	60.98	62.04	62.36	62.48
18	57.34	57.00	54.84	57.30	55.27	56.03	55.53	57.40	61.20	62.03	62.30	62.42
19	57.16	56.94	54.81	57.16	55.26	56.25	55.77	57.79	61.46	61.90	62.23	62.42
20	56.93	56.80	54.81	57.03	55.19	56.37	55.93	58.15	61.56	61.85	62.22	62.27
21	56.72	56.60	54.82	56.84	55.27	56.61	55.78	58.43	61.57	61.80	62.26	62.04
22	56.42	56.47	54.78	56.82	55.38	56.75	55.58	58.44	61.65	61.87	62.23	61.80
23	56.23	56.25	54.75	56.83	55.24	56.74	55.45	58.46	61.82	61.99	62.23	61.76
24	56.03	56.07	54.74	56.77	55.15	56.60	55.46	58.43	61.94	62.17	62.26	61.70
25	55.74	55.78	54.75	56.78	54.93	56.50	55.47	58.43	61.98	62.23	62.25	61.54
26	55.58	55.63	54.87	56.82	54.95	56.40	55.41	58.43	61.81	62.48	62.13	61.39
27	55.61	55.51	55.02	56.75	55.03	56.29	55.51	58.26	61.72	62.43	62.06	61.21
28	55.60	55.24	55.11	56.69	55.22	56.22	55.56	58.22	61.77	62.30	62.08	61.07
29	55.61	55.00	55.24	56.73	55.20	56.10	55.41	58.22	61.93	62.29	62.16	60.87
30	55.57	54.91	55.24	56.67	---	55.81	55.38	58.14	61.98	62.34	62.23	60.67
31	55.48	---	55.21	56.62	---	55.53	---	58.34	---	62.55	62.39	---
MEAN	57.80	56.04	55.04	56.78	55.64	55.78	55.40	56.81	60.79	62.10	62.28	62.03
MAX	60.43	57.00	55.44	57.81	56.61	56.75	55.93	58.46	61.98	62.55	62.45	62.65
MIN	55.48	54.91	54.74	55.15	54.93	55.13	55.17	55.22	58.61	61.69	62.06	60.67
(†)	914700	863600	890400	1017000	889000	919000	905700	1174000	1512000	1566000	1551000	1389000
(‡)	-467300	-51100	+26800	+126600	-128000	+30000	-13300	+268300	+338000	+54300	-15000	-162000

CAL YR 1983 MEAN 58.63 MAX 62.53 MIN 54.52
WTR YR 1984 MEAN 58.05 MAX 62.65 MIN 54.74

(†) Contents, in acre-feet, at end of month.
(‡) Change in contents, in acre-feet, at end of month.

Note.--Add 2,000 ft to obtain elevation.

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12392895 BLANCHARD CREEK ABOVE RESERVOIR NEAR BLANCHARD, ID

LOCATION.--Lat 47°59'58", long 117°01'51", in NE1/4 NW1/4 SE1/4, sec.23, T.34 N., R.5 W., Bonner County, Hydrologic Unit 17010214, on left bank 5.0 ft upstream from private drive bridge just off Blanchard Loop Road, 0.6 mi downstream from Idaho-Washington State line, 2.5 mi downstream from North Fork, 2.5 mi west of Blanchard Lake, and 2.5 mi southwest of Blanchard.

DRAINAGE AREA.--31.46 mi2.

PERIOD OF RECORD.--October 1979 to July 1983, January to September 1984. Miscellaneous measurements made at different sites and datums since 1958.

GAGE.--Nonrecording gage, reference mark on bridge and crest-stage gage. Altitude of gage is 2,300 ft, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum observed discharge, 84 ft3/s Mar. 21, gage height, 4.73 ft, minimum observed discharge, 1.9 ft3/s Aug. 27, gage height, 1.96 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Jan. 1-3, 12-23)

1.9	1.8	2.6	16
2.0	2.9	3.0	26
2.1	4.3	3.5	40
2.3	8.4	4.0	56
		5.0	92

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				31	19	25	43	40	47	31	9.6	2.9
2				32	19	28	41	41	46	30	9.4	3.0
3				32	18	25	40	37	46	29	8.9	3.0
4				34	17	24	39	37	48	27	7.1	2.9
5				40	18	25	46	36	50	26	7.3	2.9
6				68	18	25	43	34	49	25	6.9	6.7
7				66	16	25	42	33	49	24	6.7	3.9
8				60	16	25	67	32	50	21	6.2	3.6
9				53	17	29	56	31	54	22	5.3	3.4
10				45	16	32	61	31	50	21	4.5	3.6
11				36	16	40	57	33	49	21	4.1	4.3
12				32	24	56	57	33	48	21	3.7	4.7
13				28	31	53	57	34	46	20	3.7	4.0
14				25	26	55	53	34	45	19	3.6	4.3
15				23	25	60	53	36	44	18	3.4	4.5
16				22	24	57	54	38	42	18	3.1	4.3
17				21	22	62	56	36	42	17	3.1	4.1
18				21	25	59	56	36	42	17	2.9	4.0
19				21	26	58	53	37	41	16	2.5	4.3
20				22	21	58	52	40	57	15	2.5	4.0
21				23	26	84	50	40	46	14	2.3	4.3
22				24	25	75	49	39	44	15	2.3	6.0
23				29	22	78	47	55	43	14	2.3	5.3
24				38	21	70	44	45	41	13	2.4	4.7
25				66	21	69	42	45	38	13	2.4	4.0
26				45	19	65	40	47	36	12	2.2	4.0
27				36	21	57	38	48	35	11	1.9	3.9
28				32	21	56	37	44	34	12	2.3	3.6
29				24	20	51	35	48	33	11	2.7	3.6
30				21	---	47	35	47	32	10	2.7	3.4
31				20	---	45	---	47	---	11	3.0	---
TOTAL				1070	610	1518	1443	1214	1327	574	131.2	121.4
MEAN				34.5	21.0	49.0	48.1	39.2	44.2	18.5	4.23	4.05
MAX				68	31	84	67	55	57	31	9.6	6.7
MIN				20	16	24	35	31	32	10	1.9	2.9
AC-FT				2120	1210	3010	2860	2410	2630	1140	260	241

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12393000 PRIEST LAKE AT OUTLET, NEAR COOLIN, ID

LOCATION.--Lat 48°29'36", long 116°52'58", in NE1/4 NE1/4 SW1/4 sec.3, T.59 N., R.4 W., Bonner County, Hydrologic Unit 17010215, 0.5 mi east of outlet, 1.8 mi northwest of Coolin, and 44 mi upstream from mouth of Priest River.

DRAINAGE AREA.--572 mi2.

PERIOD OF RECORD.--June 1911 to September 1913 (fragmentary gage-height records at Coolin, published as part of records for "Priest River at outlet of Priest Lake, at Coolin"), April 1928 to July 1950 (gage-height record only), August 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,434.64 ft National Geodetic Vertical Datum of 1929. June 15, 1911, to Sept. 30, 1913, nonrecording gages at Coolin at different datums. Apr. 21, 1928, to Oct. 18, 1939, nonrecording gage at site 400 ft north of lake outlet at present datum.

REMARKS.--Flow from Priest Lake is regulated to hold lake at heights desirable for recreation interests during summer months and storage is released for power use downstream during winter months. Storage began Aug. 9, 1950. Prior to Aug. 9, 1950, some regulation resulted from logging operations in the outlet channel. Figures given herein represent contents above gage height of about -2 ft. Capacity table is based on area measured from Priest Lake quadrangle (scale 1:250,000) and reconnaissance survey of marginal areas and is only approximate. New dam completed Nov. 27, 1978.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.48 ft June 20, 1974, contents, 207,500 acre-ft; minimum, -0.46 ft Jan. 5, 6, 1977, contents, 37,500 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.07 ft June 17, contents, 144,800 acre-ft; minimum, 0.12 ft Mar. 9, contents, 51,100 acre-ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

0.0	48,000
3.0	119,300
4.0	143,100
5.0	167,050

GAGE HEIGHT (FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.96	2.89	1.28	.31	.29	.19	.80	2.01	3.67	3.29	3.01	2.90
2	2.96	2.77	1.22	.32	.28	.18	.80	2.04	3.64	3.22	2.99	2.90
3	2.97	2.91	1.17	.36	.27	.17	.79	2.04	3.60	3.13	3.00	2.91
4	3.00	2.99	1.12	.38	.25	.16	.82	2.02	3.58	3.12	3.01	2.92
5	3.02	2.94	1.06	.38	.25	.15	.87	2.01	3.60	3.11	3.01	2.93
6	3.02	2.85	1.02	.39	.23	.14	.91	2.01	3.61	3.08	3.01	2.95
7	3.03	2.74	.98	.40	.22	.13	.98	1.99	3.63	3.04	3.00	2.95
8	3.03	2.61	.95	.41	.22	.13	1.02	1.97	3.77	3.03	3.01	3.00
9	3.03	2.48	.95	.40	.23	.12	1.05	1.97	3.92	3.01	3.01	3.02
10	3.04	2.38	.93	.41	.22	.13	1.10	1.98	3.96	3.00	3.02	3.03
11	3.05	2.31	.92	.40	.23	.15	1.11	1.99	3.95	2.98	3.01	3.03
12	3.05	2.26	.88	.39	.25	.17	1.13	2.00	3.95	2.97	2.98	3.05
13	3.06	2.19	.85	.38	.23	.20	1.13	2.02	3.95	2.98	2.98	3.04
14	3.06	2.12	.81	.36	.25	.21	1.14	2.09	3.98	2.99	2.97	3.03
15	3.07	2.11	.77	.34	.24	.23	1.15	2.22	4.04	3.00	2.97	3.01
16	3.08	2.07	.72	.33	.24	.25	1.23	2.33	4.06	2.96	2.96	2.98
17	3.10	2.04	.67	.29	.23	.29	1.37	2.40	4.06	2.96	2.96	2.97
18	3.09	2.01	.64	.29	.21	.32	1.52	2.45	4.01	2.95	2.97	2.96
19	3.07	1.99	.60	.27	.20	.35	1.65	2.56	3.94	2.93	2.95	2.96
20	3.06	1.97	.55	.25	.21	.37	1.81	2.79	3.99	2.93	2.95	3.01
21	3.02	1.90	.50	.26	.23	.44	1.93	2.91	3.99	2.97	2.93	3.03
22	3.04	1.83	.46	.30	.24	.51	2.02	2.97	3.95	2.96	2.92	3.06
23	3.04	1.77	.45	.33	.24	.58	2.09	3.09	3.86	3.00	2.93	3.03
24	3.02	1.72	.38	.34	.24	.63	2.13	3.18	3.78	3.01	2.90	3.01
25	2.97	1.67	.36	.36	.23	.69	2.15	3.18	3.70	3.03	2.90	3.04
26	2.96	1.62	.36	.34	.21	.72	2.13	3.21	3.63	3.02	2.88	3.04
27	2.95	1.56	.35	.34	.21	.74	2.11	3.22	3.58	3.02	2.85	3.04
28	2.95	1.49	.33	.34	.19	.76	2.08	3.23	3.51	3.00	2.85	3.04
29	2.95	1.42	.33	.34	.18	.78	2.05	3.29	3.44	3.03	2.87	3.04
30	2.99	1.35	.33	.33	---	.79	2.01	3.46	3.39	3.04	2.88	3.03
31	2.95	---	.32	.30	---	.79	---	3.63	---	3.01	2.87	---
MEAN	3.02	2.17	.72	.34	.23	.37	1.44	2.52	3.79	3.03	2.95	3.00
MAX	3.10	2.99	1.28	.41	.29	.79	2.15	3.63	4.06	3.29	3.02	3.06
MIN	2.95	1.35	.32	.25	.18	.12	.79	1.97	3.39	2.93	2.85	2.90
(†)	118100	80100	55800	55400	52500	66900	95800	134300	128600	119500	116200	120500
(‡)	-500	-38000	-24300	-400	-2900	+14400	+28900	+38500	-5700	-9100	-3300	+4300

CAL YR 1983 MEAN 2.21 MAX 4.93 MIN .23
WTR YR 1984 MEAN 1.97 MAX 4.06 MIN .12

†Contents, in acre-feet, at end of month.
‡Change in contents, in acre-feet, at end of month.

BEST COPY AVAILABLE

12394000 PRIEST RIVER NEAR COOLIN, ID

LOCATION.--Lat 48°27'07", long 116°53'58", in SE1/4 SW1/4 NE1/4 sec.19, T.59 N., R.4 W., Bonner County, Hydrologic Unit 17010215, in Dickensheet campground, on left bank 190 ft downstream from Dickensheet Bridge, 2.5 mi downstream from Lamb Creek, 3 mi southwest of Coolin, 3.2 mi downstream from outlet of Priest Lake, and at mile 38.8.

DRAINAGE AREA.--611 mi2.

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,338.24 ft National Geodetic Vertical Datum of 1929. Prior to Feb. 23, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good. No diversion above station. Flow partly regulated by Priest Lake (see sta 12393000).

AVERAGE DISCHARGE.--36 years, 1,321 ft3/s, 29.37 in./yr, 957,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,900 ft3/s June 16, 1974, gage height, 8.44 ft; minimum observed, 28 ft3/s Sept. 23, 1955, gage height, 1.16 ft, but may have been less Sept. 11, 1953, Sept. 24, 1959, when stage was below intake.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 29, 1948, reached a stage of 8.40 ft present site and datum, discharge, 8,570 ft3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,340 ft3/s June 17, gage height, 6.49 ft; minimum, 55 ft3/s Sept. 5-9, gage height, 1.47 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

1.4	48	3.5	960
1.7	97	4.0	1630
2.0	161	5.0	2720
2.5	326	6.0	4610
3.0	590	7.0	6310

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	201	1650	1660	749	706	626	1160	2330	4400	3740	603	73
2	201	2130	1590	744	700	627	1160	2410	4400	3330	555	67
3	201	2420	1490	751	692	621	1170	2410	4400	3150	527	61
4	167	2840	1440	767	687	613	1180	2390	4400	2360	416	62
5	179	2990	1380	753	678	609	1230	2390	4400	2030	350	60
6	149	3220	1350	793	670	602	1280	2350	4400	2060	346	59
7	149	3320	1330	804	666	596	1310	2360	4600	2050	349	58
8	149	3130	1310	806	659	591	1400	2340	4770	1700	353	59
9	149	2950	1260	808	652	588	1420	2290	4990	1530	353	79
10	148	2800	1260	808	653	593	1460	2310	5130	1520	353	103
11	147	2730	1250	810	652	606	1470	2320	5130	1520	350	103
12	147	2640	1210	803	666	629	1480	2350	5130	1100	348	143
13	147	2560	1180	801	676	649	1300	2360	5110	926	346	261
14	147	2480	1150	788	675	674	1490	2410	5130	936	346	363
15	147	2460	1110	786	674	689	1510	2570	5210	973	344	432
16	147	2410	1090	756	669	710	1560	2690	5220	972	344	433
17	236	2390	1080	744	660	741	1690	2800	5280	969	344	435
18	465	2350	1070	733	651	767	1830	2860	5230	849	344	372
19	566	2310	1070	719	644	786	1970	2900	5150	786	342	169
20	567	2300	1070	705	639	806	2150	2900	5060	650	339	123
21	695	2240	1070	709	656	875	2280	3050	5090	413	339	125
22	769	2160	1060	719	663	927	2390	3250	5210	330	338	124
23	770	2050	1040	731	668	974	2460	3400	5090	402	335	123
24	770	2030	1020	747	668	1020	2520	3500	4920	430	312	122
25	770	1980	974	756	660	1060	2540	3500	4770	430	128	121
26	643	1910	951	761	652	1090	2540	3600	4650	541	119	119
27	405	1860	897	756	644	1110	2510	3600	4540	603	117	118
28	307	1790	763	751	635	1120	2480	3600	4450	603	116	115
29	306	1740	763	747	628	1140	2440	3750	4190	604	91	115
30	306	1680	761	741	---	1150	2390	3950	3890	603	71	115
31	1200	---	756	721	---	1160	---	4100	---	603	69	---
TOTAL	11350	71550	35395	23577	19243	24749	53960	89110	144410	38643	9687	4753
MEAN	366	2385	1141	761	664	798	1799	2875	4814	1247	312	158
MAX	1200	3320	1660	810	706	1160	2540	4100	5280	3740	603	435
MIN	147	1650	756	705	628	588	1160	2290	3890	330	69	58
AC-FT	22510	141900	70190	46760	38170	49090	107000	176700	286400	76650	19210	9430

CAL YR 1983 TOTAL 646627 MEAN 1772 MAX 6560 MIN 147 AC-FT 1283000
WTR YR 1984 TOTAL 526417 MEAN 1438 MAX 5280 MIN 58 AC-FT 1044000

12395000 PRIEST RIVER NEAR PRIEST RIVER, ID

LOCATION.--Lat 48°12'31", long 116°54'49", in NW1/4 SW1/4 NW1/4 sec.12, T.56 N., R.5 W., Bonner County, Hydrologic Unit 17010215, on right bank 500 ft downstream from Saddler Creek, 0.4 mi downstream from Lower West Branch, 2.7 mi north of Priest River, and at mile 3.0.

DRAINAGE AREA.--902 mi2.

PERIOD OF RECORD.--June 1903 to April 1905, November 1910 to April 1911, May to December 1923, February 1929 to current year. Prior to October 1930, published as "at Priest River."

REVISED RECORDS.--WSP 572: 1903-5.

GAGE.--Water-stage recorder. Altitude of gage is 2,090 ft, from river-profile map. Prior to May 15, 1929, and Sept. 12, 1929, to Apr. 28, 1930, nonrecording gages at site 3 mi downstream at altitude about 40 ft lower. June 4 to Sept. 11, 1929, and Apr. 29 to Sept. 11, 1930, nonrecording gages at or near present site at present datum.

REMARKS.--Records good. No diversion above station. Some regulation on tributary and, since Aug. 9, 1950, flow partly regulated by Priest Lake (see sta 12393000).

AVERAGE DISCHARGE.--56 years (1904, 1930-84), 1,686 ft3/s, 25.38 in./yr, 1,222,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,500 ft3/s May 29, 30, 1948; maximum gage height, 9.97 ft May 29, 1948; minimum discharge, 130 ft3/s Nov. 29, 1979, gage height, 0.38 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,240 ft3/s June 21, gage height, 6.40 ft; minimum 212 ft3/s Sept. 5, gage height, 0.35 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 25 to Jan. 2, Jan. 16-23)

0.6	203	2.0	1040
.8	280	3.0	1910
1.0	375	4.0	3000
1.5	680	5.0	4260
		7.0	7110

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	376	1880	1940	1020	1020	967	1980	3150	5470	4270	836	224
2	376	2030	1890	1060	1010	1030	1930	3360	5450	4020	827	227
3	374	2770	1890	1100	996	1050	1910	3360	5350	3650	756	223
4	331	3340	1830	1160	976	970	1920	3260	5280	3370	670	219
5	312	3410	1760	1240	956	961	2110	3200	5300	2440	540	217
6	310	3670	1720	1290	969	968	2270	3180	5270	2540	550	225
7	308	3800	1650	1270	940	979	2270	3110	5200	2570	563	223
8	307	3550	1640	1220	932	992	2690	3050	5390	2590	570	220
9	307	3330	1620	1200	934	1030	2620	3330	5820	1960	565	224
10	306	3220	1670	1180	940	1130	2630	3000	5910	1920	563	238
11	303	3560	1640	1170	933	1240	2600	3020	5880	1900	558	261
12	305	3330	1590	1130	966	1360	2530	3370	5840	1760	552	261
13	306	3180	1550	1120	1060	1420	2490	3040	5820	1260	546	393
14	305	3170	1510	1110	1080	1470	2630	3120	5820	1260	539	423
15	305	3190	1470	1090	1030	1490	2410	3320	5840	1310	539	363
16	304	3210	1420	1040	1010	1590	2370	3490	5920	1290	531	524
17	311	3310	1290	1010	978	1730	2870	3600	5930	1280	532	[illegible]
18	459	3280	1260	950	949	1770	3130	3620	5880	1240	532	597
19	727	3110	1260	960	923	1790	3230	3680	5750	1070	530	634
20	742	3100	1300	950	936	1790	3370	3990	5690	1040	521	321
21	757	3000	1240	950	990	2100	3480	4260	5960	855	517	313
22	968	2840	1250	970	1020	2300	3540	4350	6130	540	514	297
23	989	2700	1260	1030	1010	2240	3580	4610	5810	573	505	285
24	962	2620	1220	1110	995	2340	3570	4800	5560	600	502	274
25	951	2560	1200	1240	977	2250	3520	4820	5370	640	433	272
26	932	2480	1150	1170	957	2240	3470	4560	5030	778	289	255
27	744	2420	1100	1110	939	2160	3400	4950	5080	852	273	246
28	495	2340	1070	1130	937	2090	3340	4840	4960	946	268	243
29	473	2230	1040	1110	926	2040	3290	4650	4930	859	268	251
30	478	2090	1030	1080	---	2000	3190	5010	4550	863	246	262
31	681	---	1020	1040	---	1980	---	5290	---	849	232	---
TOTAL	15804	88520	44480	34230	28273	49417	84280	118290	166260	50649	15867	9417
MEAN	510	2951	1435	1105	975	1594	2809	3816	5542	1634	512	314
MAX	989	3800	1940	1280	1080	2340	3580	5290	6130	4270	836	[illegible]
MIN	303	1880	1020	950	923	967	1910	3000	4550	540	232	217
AC-FT	31350	175600	88230	67930	56080	98020	167200	234600	329800	100500	31470	18680

CAL YR 1983	TOTAL	863566	MEAN	2366	MAX	7300	MIN	303	AC-FT	1713000
WTR YR 1984	TOTAL	703527	MEAN	1928	MAX	6130	MIN	217	AC-FT	1399000

12395500 PEND OREILLE RIVER AT NEWPORT, WA

LOCATION.--Lat 48°10'58", long 117°02'00", in SE1/4 SE1/4 SW1/4 sec.24, T.56 N., R.6 W. (Boise meridian), Bonner County, Hydrologic Unit 17010216, on left bank at Newport, 0.2 mi upstream from bridge on U.S. Highway 2, 0.2 mi east of Idaho-Washington State line, 1.6 mi downstream from Albeni Falls Dam, and at mile 88.5.

DRAINAGE AREA.--24,200 mi2, approximately.

PERIOD OF RECORD.--June 1903 to September 1941, October 1952 to current year. Prior to October 1921, published as "Clark Fork at Newport, Wash.," October 1921 to September 1937, as "Clark Fork at Priest River, Idaho," and October 1937 to September 1941, as "Pend Oreille River at Priest River, Idaho."

REVISED RECORDS.--WSP 332: 1903-11.

GAGE.--Water-stage recorder. Datum of gage is 1,999.7 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 22, 1928, nonrecording gages at Priest River, Newport, or Metaline Falls at various datums (see description, WSP 332, p. 92). Sept. 22, 1928, to Sept. 30, 1935, at datum 2,040.14 ft National Geodetic Vertical Datum, and Oct. 1, 1935, to Sept. 30, 1941, at datum 2,000 ft National Geodetic Vertical Datum, water-stage recorder at Priest River. Since December 1952, auxiliary water-stage recorder 2.74 mi downstream from base gage.

REMARKS.--Records good. Flow regulated at Albeni Falls Dam and affected by storage in Pend Oreille Lake (see sta 12392500), Flathead Lake, Hungry Horse Reservoir, and several smaller reservoirs. Diversions above station for irrigation of about 354,000 acres.

AVERAGE DISCHARGE.--70 years (1904-41, 1953-84), 26,000 ft3/s, 18,840,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136,000 ft3/s June 15, 1913, June 21, 1933, June 12, 1972; minimum, 1,280 ft3/s Sept. 1, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of about 44.0 ft present site and datum, discharge, about 200,000 ft3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 70,400 ft3/s June 25, maximum gage height, 43.76 ft June 25; minimum discharge, 2,480 ft3/s Jan. 6, minimum gage height, 30.40 ft Jan. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22700	26400	16300	24200	23000	22300	26100	28900	40200	65600	17400	12300
2	22300	26200	15800	22100	23100	22000	20600	27500	40300	59900	16500	12600
3	22400	26600	15600	21200	23000	21700	15600	27300	40300	49500	15700	12900
4	22400	23900	15500	15000	22400	19500	16100	26300	42300	39400	13900	13300
5	21800	14400	15400	6030	22600	18600	19400	25800	44400	29300	10900	13500
6	22000	11200	16500	3230	22800	20900	21600	29100	47900	25600	9090	21100
7	21900	11200	17800	3220	22500	19200	18900	32500	48800	32200	9550	21400
8	21900	10800	17600	3270	22400	16300	16300	34800	48600	32600	11500	17600
9	21900	11200	16700	4770	22600	16300	18300	28700	48300	30600	12700	16600
10	23300	10800	15100	9120	22300	20900	20200	24600	48500	28400	14300	13200
11	26400	12100	19300	13500	22300	21500	19500	22400	48500	25600	15600	14600
12	26100	13800	22800	21700	22300	21400	19600	20500	49000	27900	13500	11800
13	26200	19800	26000	21700	22300	24000	19600	20600	49000	26300	10600	19900
14	25300	20000	17900	21500	22100	16800	19300	22500	51600	23400	9610	12300
15	26000	19700	15300	21900	22500	9490	19200	25200	55800	22500	9440	12800
16	25900	20000	15300	22600	22300	8190	17900	27000	60500	22400	9360	11600
17	25800	20300	15200	22900	22100	8140	16400	30300	63200	20900	10500	11900
18	26300	20000	13200	22400	20300	8150	19300	32600	62300	20200	11500	16900
19	26300	24300	12300	22400	19100	8000	22600	35000	57300	24300	11600	21700
20	26100	30100	12300	23300	18900	8100	31500	35200	56800	21900	9290	22200
21	26700	30500	17300	23700	17500	7960	37400	39300	62300	12500	9510	20900
22	26500	31800	16000	23100	17700	11800	39800	47700	66400	8580	9690	17500
23	26600	30600	15400	23000	22200	18500	34800	49100	68200	8190	9310	15600
24	26700	30700	14800	23600	19700	21000	32500	51600	67300	8190	11200	17200
25	26800	30300	14300	23500	15800	22900	34700	45900	68100	8100	13700	20600
26	23000	30200	11700	23100	12500	26900	34700	43100	65500	9080	14200	23200
27	15700	30400	10500	22800	12600	26600	32900	40200	56500	14000	12200	23200
28	15700	30100	13400	23200	16000	26000	30500	34900	55800	15300	8900	21500
29	15600	29800	17800	22900	21100	25900	30300	34700	61900	13100	8890	18600
30	15600	22600	25300	22900	---	26000	30000	37300	65400	10500	9700	19700
31	20400	---	26400	23300	---	26400	---	40700	---	9360	10600	---
TOTAL	722300	672200	509000	585740	596000	571430	734400	1021400	1641000	749600	361930	499300
MEAN	23300	22410	16420	18890	20550	18430	24480	32950	54700	24170	11680	16640
MAX	26800	31800	26400	24200	23100	26900	39800	51600	68200	65600	17400	23200
MIN	15600	10800	10500	3220	12500	7960	15600	20400	40200	8100	8890	10900
AC-FT	1433000	1333000	1010000	1162000	1182000	1133000	1457000	2026000	3255000	1486000	717900	990400

CAL YR 1983 TOTAL 9494060 MEAN 26010 MAX 69700 MIN 3950 AC-FT 18831000
WTR YR 1984 TOTAL 8664300 MEAN 23670 MAX 68200 MIN 3220 AC-FT 17185000

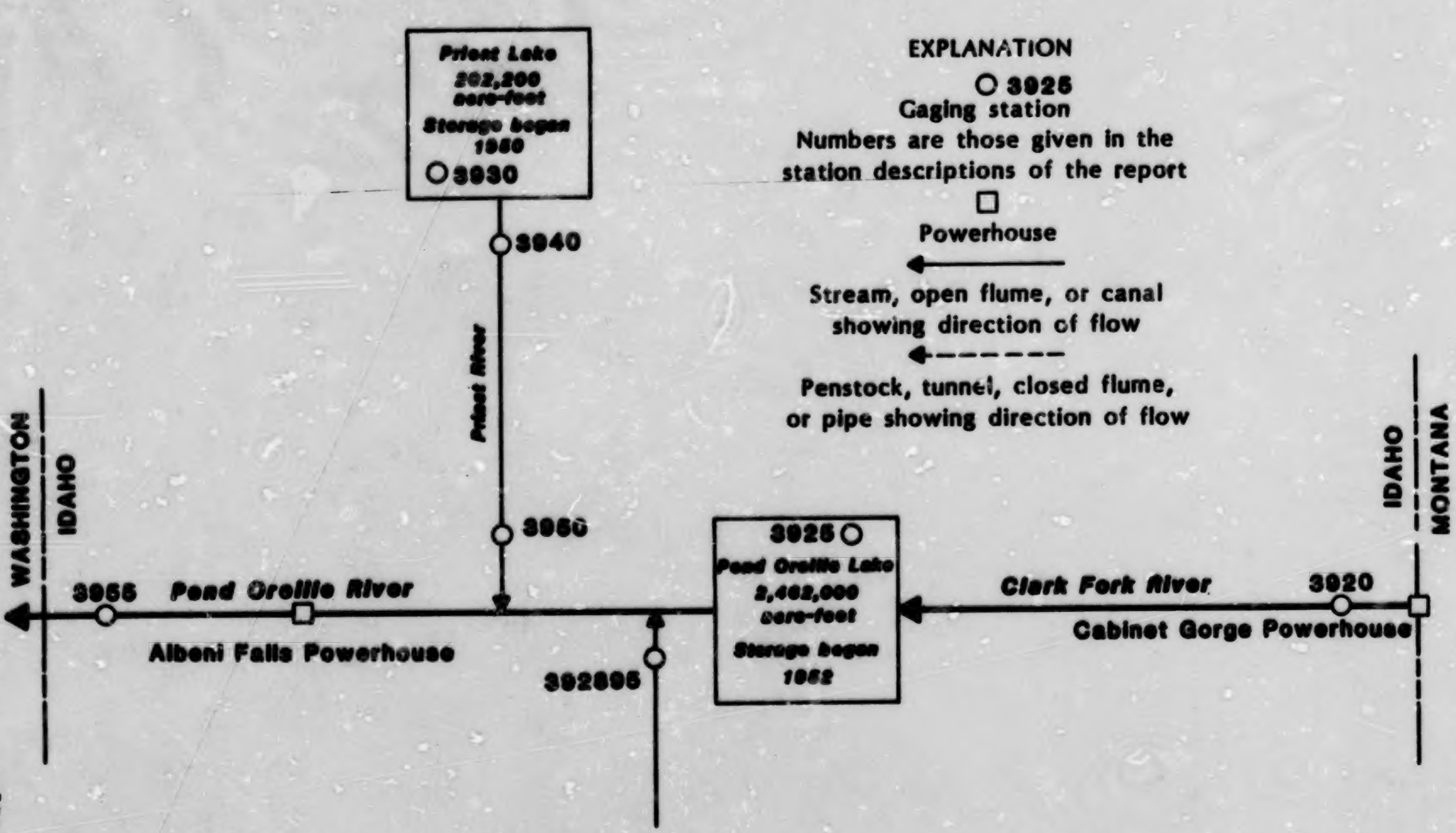
Priest Lake
262,200
acre-feet
Storage began
1950
3930
3940
Priest River
3950
WASHINGTON
IDAHO
3955
Pend Oreille River
Albeni Falls Powerhouse
392695
3925
Pend Oreille Lake
2,462,000
acre-feet
Storage began
1952
Clark Fork River
3920
Cabinet Gorge Powerhouse
IDAHO
MONTANA
EXPLANATION
3925
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow

Figure 13. -- Gaging stations in Pend Oreille River basin.

12411000 COEUR D'ALENE RIVER ABOVE SHOSHONE CREEK, NEAR PRICHARD, ID

LOCATION.--Lat 47°42'30", long 115°58'35", in NE1/4 SW1/4 sec.5, T.50 N., R.4 E., Shoshone County, Hydrologic Unit 17010301, in Coeur d'Alene National Forest, on left bank at Shoshone Creek ranger station, 0.1 mi downstream from Uranus Creek, 0.5 mi upstream from Shoshone Creek, 3.5 mi north of Prichard, and 200.0 mi upstream from mouth of Spokane River.

DRAINAGE AREA.--335 mi2.

PERIOD OF RECORD.--December 1950 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,485 ft from river-profile map.

REMARKS.--Records good except December and January which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--33 years (1951-84), 721 ft3/s, 29.23 in./yr, 522,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,000 ft3/s Jan. 15, 1974, gage height, 11.60 ft; minimum discharge, 34 ft3/s Dec. 26, 1952, gage height, 0.69 ft; minimum gage height, 0.56 ft Nov. 16, 1982.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Jan. 7	1500	ice jam	*6.52	Apr. 17	1600	3700	4.58

Minimum discharge, 89 ft3/s Oct. 16, 17, minimum gage height, 0.63 ft Oct. 16, 17, Sept. 19-20.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 30 to Dec. 11, Dec. 18 to Jan. 7, Jan. 16-25)

0.5	57	3.0	775
.7	108	3.7	1360
1.0	312	3.8	2600
1.4	398	5.0	4400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	193	295	170	776	353	971	1080	1680	535	180	120
2	96	172	280	170	698	388	951	1220	1410	503	183	116
3	94	191	275	210	638	383	921	1510	1250	472	177	109
4	94	452	290	350	593	373	920	1580	1180	446	171	106
5	93	380	280	650	550	373	1020	1540	1200	426	170	102
6	92	375	265	1000	569	373	1210	1460	1160	404	165	122
7	92	568	250	1100	520	380	1300	1380	1100	384	161	130
8	93	424	250	1040	491	407	1340	1360	1060	368	155	129
9	96	340	265	925	485	465	1360	1430	1140	354	151	135
10	96	302	275	820	473	551	1400	1550	1160	339	147	119
11	93	305	300	719	455	784	1350	1560	1150	325	145	110
12	92	713	276	632	455	1120	1290	1740	1110	313	141	111
13	94	653	268	562	503	1340	1260	2050	1090	301	139	112
14	94	619	262	479	556	1400	1250	2520	1040	291	134	108
15	92	619	258	438	538	1440	1420	2670	985	279	132	103
16	92	672	247	415	538	1490	2420	2210	932	269	129	102
17	97	960	211	395	497	1530	3490	1890	861	258	125	100
18	127	1120	190	385	479	1450	3280	1720	791	250	125	97
19	117	1110	175	385	432	1350	2890	1760	734	241	125	96
20	104	1010	160	390	455	1310	2900	2540	695	232	121	115
21	99	838	145	415	450	1510	2930	2660	850	226	118	173
22	116	697	140	500	432	1730	2630	2140	883	222	116	142
23	168	606	140	900	415	1770	2510	2190	841	216	113	140
24	135	563	140	1550	404	1760	2290	2680	819	210	110	126
25	115	529	150	2000	388	1660	1980	2370	781	205	108	111
26	106	465	160	1130	368	1530	1700	2090	733	198	107	106
27	101	441	170	1010	348	1330	1490	2040	685	194	103	103
28	97	412	165	939	343	1210	1360	2000	642	189	100	100
29	97	372	165	909	343	1110	1240	1980	612	194	101	97
30	98	330	175	864	---	1030	1130	2170	583	191	101	97
31	123	---	180	820	---	994	---	2070	---	183	113	---
TOTAL	3196	16631	6802	22272	14192	32894	52203	59160	29157	9218	4166	3437
MEAN	103	554	219	718	489	1061	1740	1908	972	297	134	115
MAX	168	1120	300	2000	776	1770	3490	2680	1680	535	183	173
MIN	92	172	140	170	343	353	920	1080	583	183	100	96
CFSM	.31	1.65	.65	2.14	1.46	3.17	5.19	5.70	2.90	.89	.40	.34
IN.	.35	1.85	.76	2.47	1.58	3.65	5.80	6.57	3.24	1.02	.46	.38
AC-FT	6340	32990	13490	44180	28150	65250	103500	117300	57830	18280	8260	6820

CAL YR 1983	TOTAL	265448	MEAN	727	MAX	3460	MIN	92	CFSM 2.17	IN. 29.48	AC-FT	526500
WTR YR 1984	TOTAL	253328	MEAN	692	MAX	3490	MIN	92	CFSM 2.07	IN. 28.13	AC-FT	502500

12413000 COEUR D'ALENE RIVER AT ENAVILLE, ID

LOCATION.--Lat 47°34'20", long 116°15'10", in NW1/4 NE1/4 sec.30, T.49 N., R.2 E., Shoshone County, Hydrologic Unit 17010301, on right bank 800 ft upstream from highway bridge, 1.1 mi upstream from South Fork, 3.5 mi downstream from North Fork, and 168.9 mi upstream from mouth of Spokane River.

DRAINAGE AREA.--895 mi2.

PERIOD OF RECORD.--March 1911 to April 1913 (fragmentary), October 1939 to current year. Published as North Fork of Coeur d'Alene River at Enaville 1911-13.

REVISED RECORDS.--WSP 1396: 1945.

GAGE.--Water-stage recorder. Datum of gage is 2,100.00 ft National Geodetic Vertical Datum of 1929. Mar. 3, 1911, to Apr. 12, 1913, nonrecording gage at site 0.2 mi downstream at different datum. Oct. 18 to Dec. 22, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good. No appreciable regulation or diversion above station.

AVERAGE DISCHARGE.--45 years (1939-84), 1,934 ft3/s, 29.34 in./yr, 1,401,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 61,000 ft3/s Jan. 16, 1974, gage height, 81.32 ft; minimum, 95 ft3/s Nov. 30, 1979, gage height, 60.10 ft Dec. 26, 1952.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in December 1933 reached a stage of 79.47 ft and that in April 1938 a stage of 78.16 ft, from local information concerning high-water marks.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 8,000 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Jan. 25		Ice jam	*69.32	Apr. 17	1930	*8920	68.06

Minimum discharge, 270 ft3/s Oct. 16, 17, gage height, 61.41 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 3-6, Dec. 19 to Jan. 3, Jan. 15-25))

61.4	265	64.0	2500
62.0	620	65.0	3790
62.5	1000	66.0	5290
63.0	1430	68.0	8800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	288	422	766	410	2300	1100	2520	2560	4810	1470	511	347
2	285	453	735	420	2210	1230	2440	2730	3860	1370	509	339
3	285	454	705	450	2060	1300	2360	3380	3350	1280	500	325
4	286	851	700	864	1860	1280	2330	3630	3100	1210	485	315
5	284	999	705	1690	1700	1260	2500	3510	3120	1160	478	309
6	280	877	710	2830	1610	1250	2980	3360	3060	1110	475	330
7	279	1290	713	3670	1550	1250	3310	3130	2950	1050	462	357
8	276	1120	715	3320	1470	1270	3430	3040	2890	1010	446	350
9	279	917	699	2880	1430	1380	3520	3170	3240	968	434	370
10	285	797	869	2540	1410	1610	3630	3450	3360	929	426	352
11	279	1090	990	2290	1360	2250	3540	3500	3270	890	417	330
12	276	1550	897	2010	1350	3510	3340	3620	3130	857	411	322
13	276	1510	864	1800	1600	4940	3360	4170	3070	825	405	320
14	276	1500	876	1540	1930	4850	3250	5180	2960	795	398	314
15	276	1580	896	1350	1970	4890	3580	6070	2870	767	388	307
16	271	1730	860	1280	1910	4920	5670	5350	2800	738	381	306
17	278	2290	748	1250	1750	4910	8300	4510	2600	711	372	298
18	327	2750	582	1250	1610	4570	8140	4030	2370	693	367	299
19	329	2950	520	1280	1500	4210	7040	4000	2180	676	366	277
20	305	2630	450	1300	1420	4090	6970	5740	2040	651	359	293
21	289	2240	390	1350	1430	4950	6980	6850	2290	634	353	374
22	307	1850	350	1500	1410	6130	6400	5620	2480	619	348	402
23	408	1590	330	1800	1330	5800	6130	5390	2320	604	342	393
24	398	1430	330	2240	1280	5300	5700	6520	2230	591	337	361
25	344	1360	340	4870	1240	4740	4910	6210	2140	576	331	330
26	314	1230	360	5630	1170	4320	4160	5450	2040	560	326	311
27	298	1160	360	4200	1100	3720	3610	5500	1910	548	321	301
28	287	1100	360	3700	1080	3280	3250	5520	1780	538	312	292
29	282	1040	370	3200	1080	2990	2980	5420	1690	552	311	286
30	281	932	390	2900	---	2740	2710	5930	1610	545	307	284
31	306	---	410	2600	---	2600	---	5920	---	527	321	---
TOTAL	9234	41692	18990	68234	45120	102640	129040	142460	81520	25454	12199	9781
MEAN	298	1390	613	2201	1556	3311	4301	4595	2717	821	394	326
MAX	408	2950	990	5630	2300	6130	8300	6850	4810	1470	511	402
MIN	271	422	330	410	1080	1100	2330	2560	1610	527	307	277
CFSM	.33	1.55	.68	2.46	1.74	3.70	4.81	5.13	3.04	.92	.44	.36
IN.	.38	1.73	.79	2.84	1.88	4.27	5.36	5.92	3.39	1.06	.51	.41
AC-FT	18320	82700	37670	135300	89500	203600	256000	282600	161700	50490	24200	19400

CAL YR 1983 TOTAL 716150 MEAN 1962 MAX 8790 MIN 271 CFSM 2.19 IN. 29.77 AC-FT 1420000
WTR YR 1984 TOTAL 686364 MEAN 1875 MAX 8300 MIN 271 CFSM 2.09 IN. 28.53 AC-FT 1361000

Note.--No gage-height record Jan. 28 to Feb. 1.

12413140 PLACER CREEK AT WALLACE, ID

LOCATION.--Lat 47°27'50", long 115°56'10", in NE1/4 SW1/4 sec.34, T.48 N., R.6 E., Shoshone County, Hydrologic Unit 17010302, on right bank about 400 ft upstream from county road bridge, 0.3 mi downstream from West Fork, 0.4 mi south of Wallace city limits, and at mile 1.0.

DRAINAGE AREA.--14.9 mi2.

PERIOD OF RECORD.--November 1967 to current year.

GAGE.--Water-stage recorder. Rock filled gabion control since July 29, 1981. Altitude of gage is 2,840 ft, from topographic map.

REMARKS.--Records good. Water for town of Wallace is diverted above the station.

AVERAGE DISCHARGE.--16 years, 38.2 ft3/s, 34.82 in./yr, 27,680 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,200 ft3/s Jan. 15, 1974, gage height, 4.71 ft; minimum, 0.27 ft3/s Jan. 28, 1979.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 23, 1964, estimated at 1,300 ft3/s by Idaho Department of Highways on basis of observed depths in concrete flume downstream. Flood in December 1933 reported slightly higher than 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 175 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)
Apr. 17	0115	183	3.12
May 14	1845	191	3.16
May 20	1115	*361	*3.62
May 23	1315	205	3.21
May 30	0630	257	3.37

Minimum discharge, 3.5 ft3/s Dec. 29, gage height 1.54 ft; minimum gage height, 1.51 ft Sept. 4, 5, 15-18, 28-30.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used June 29 to Sept. 30; stage-discharge relation
affected by ice Dec. 1-5, Dec. 17-Jan. 1, Jan. 17-22)

1.5	2.85	2.0	19
1.6	4.40	2.3	42
1.7	6.40	2.7	92
1.8	9.30	3.1	175
		3.5	308

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	4.8	7.8	4.6	33	16	33	48	133	37	14	7.4
2	4.2	6.0	7.1	5.6	31	16	32	61	96	35	14	7.0
3	4.4	6.7	6.8	8.4	28	15	32	63	93	35	13	6.5
4	5.0	17	6.8	18	26	15	33	60	90	33	13	6.2
5	4.6	8.1	6.7	41	25	15	38	56	90	32	13	5.9
6	4.4	18	6.6	46	24	15	44	54	90	31	12	9.9
7	4.6	15	6.5	50	23	15	42	52	72	29	12	7.2
8	4.6	10	7.0	41	22	16	46	57	70	29	11	7.9
9	6.0	8.1	8.1	36	21	20	45	90	72	28	11	6.6
10	5.2	9.3	15	31	21	26	46	77	69	27	10	6.3
11	4.6	27	11	27	19	35	42	73	76	27	10	6.0
12	4.6	18	10	25	22	45	41	79	78	26	10	5.9
13	4.6	16	10	22	26	53	40	100	90	25	9.8	5.7
14	4.6	13	10	20	26	55	62	169	82	25	9.5	5.5
15	4.6	15	9.3	18	25	56	57	152	92	24	9.2	5.5
16	4.4	20	8.7	17	24	53	121	108	76	23	9.0	5.4
17	5.8	27	8.1	16	22	51	165	92	67	22	8.8	5.3
18	6.4	25	7.7	14	21	65	123	92	62	20	8.4	5.2
19	5.2	22	7.1	13	19	64	124	117	57	20	8.2	5.4
20	4.8	20	6.4	11	18	67	121	230	55	19	7.0	7.3
21	4.6	16	5.9	9.5	19	69	110	188	61	19	7.8	7.3
22	7.3	14	5.3	9.8	18	73	108	131	55	17	7.4	9.3
23	6.0	12	4.9	10	17	65	106	175	51	18	7.5	7.5
24	5.0	12	4.5	17	17	58	96	168	49	17	7.5	6.0
25	4.6	11	4.1	106	16	53	77	115	46	16	7.3	5.5
26	4.4	11	3.8	76	15	48	67	102	44	16	7.0	5.5
27	4.2	10	3.6	54	14	42	60	121	42	16	6.9	5.5
28	4.2	10	3.4	45	15	39	56	126	40	15	6.8	5.4
29	4.2	9.0	3.5	41	15	36	52	165	40	16	6.6	5.4
30	4.2	8.4	3.6	37	---	35	63	239	38	15	6.7	5.2
31	5.0	---	4.0	36	---	34	---	188	---	14	8.4	---
TOTAL	150.9	421.4	213.3	901.9	622	1205	2050	3593	2012	728	293.7	192.0
MEAN	4.87	14.0	6.88	29.1	21.4	38.9	68.3	116	67.1	23.5	9.47	6.40
MAX	7.3	27	15	106	33	73	165	280	133	37	14	9.9
MIN	4.2	4.8	3.4	4.6	14	15	32	48	38	14	6.6	5.2
CFSM	.33	.94	.46	1.95	1.44	2.61	4.58	7.79	4.50	1.58	.64	.43
IN.	.38	1.05	.53	2.25	1.55	3.01	5.12	8.97	5.02	1.82	.73	.48
AC-FT	299	836	423	1790	1230	2390	4070	7130	3990	1440	583	381

CAL YR 1983 TOTAL 14065.6 MEAN 38.5 MAX 220 MIN 3.4 CFSM 2.58 IN. 35.07 AC-FT 27900
WTR YR 1984 TOTAL 12303.2 MEAN 33.6 MAX 280 MIN 3.4 CFSM 2.27 IN. 30.92 AC-FT 24400

12413130 SOUTH FORK COEUR D'ALENE RIVER AT SILVERTON, ID

LOCATION.--Lat 47°29'29", long 115°57'12", in SW1/4 NW1/4 SE1/4 sec.21, T.48 N., R.4 E., Shoshone County, Hydrologic Unit 17010302, on upstream side of bridge at the off ramp of U.S. Highway I-90 at Silverton, 700 ft downstream from Lake Creek, and at mile 17.4.

DRAINAGE AREA.--108 mi2. Area at site used prior to Sept. 1, 1976, 103 mi2.

PERIOD OF RECORD.--November 1967 to current year.

GAGE.--Nonrecording and crest-stage gages. Datum of gage is 2,617.10 ft National Geodetic Vertical Datum of 1929 (levels by Idaho Department of Transportation). Prior to Sept. 1, 1976, at site 1,100 ft upstream at different datum. September 1976 to June 7, 1978, at datum 1 ft higher.

REMARKS.--Records good except for December and January which are poor. Some flow is diverted through smelters and returned to stream above station.

AVERAGE DISCHARGE.--16 years, 253 ft3/s, 31.81 in./yr, 183,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,300 ft3/s Jan. 16, 1974, gage height, 10.20 ft; minimum daily, 24 ft3/s Dec. 30, 1979; minimum gage height, 2.85 ft Oct. 7, 8, Dec. 31, 1974 (site and datum then in use).

EXTREMES FOR CURRENT YEAR.--Maximum observed discharge, 1,510 ft3/s May 31, gage height, 7.65 ft; minimum daily, 39 ft3/s Dec. 24-26, minimum gage height observed, 3.87 ft Oct. 28, 29.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 2-5, Dec. 10 to Jan. 3, Jan. 18-26;
shifting-control method used Aug. 11 to Sept. 30)

3.8	34	5.5	365
4.0	50	6.0	565
4.5	114	7.0	1070
5.0	220	8.0	1710

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	52	75	52	179	106	192	309	1080	386	99	73
2	48	62	69	65	168	114	192	358	965	351	96	69
3	48	65	65	80	157	104	186	376	740	334	96	69
4	53	147	63	127	147	104	181	340	715	303	96	67
5	48	87	62	213	136	100	204	340	760	288	98	67
6	48	168	61	250	136	102	228	309	760	273	93	75
7	50	127	60	258	130	99	224	294	760	260	90	69
8	49	96	60	225	127	104	240	294	715	229	90	75
9	54	96	74	206	136	111	252	358	715	222	86	75
10	60	87	110	202	130	132	240	376	655	215	83	70
11	52	202	97	190	128	170	228	376	642	222	86	55
12	52	157	50	168	166	228	252	376	665	199	86	65
13	52	157	80	157	153	240	232	452	715	192	78	[illegible]
14	52	147	87	136	139	252	228	820	940	198	76	65
15	48	136	74	136	139	265	240	770	890	166	75	64
16	48	170	66	142	128	265	452	720	944	166	74	63
17	48	147	60	118	119	252	520	573	860	155	71	59
18	52	151	56	100	119	249	601	556	790	153	72	52
19	50	136	52	92	119	228	646	578	715	154	69	63
20	52	128	48	90	114	228	695	1320	675	134	67	69
21	48	113	45	90	116	309	624	1060	865	127	67	72
22	57	110	41	92	119	309	578	820	740	136	67	65
23	68	110	40	95	111	300	573	976	665	123	64	79
24	57	102	39	132	104	285	556	976	619	118	64	76
25	52	99	39	118	111	300	512	945	642	110	66	73
26	52	96	39	276	108	265	432	795	628	110	57	61
27	49	90	40	238	104	252	358	845	576	102	57	62
28	45	87	41	225	99	228	358	860	556	104	57	59
29	45	83	42	213	96	226	324	1030	529	104	57	57
30	51	80	44	202	---	215	318	1480	465	104	57	59
31	57	---	47	179	---	204	---	1510	---	104	66	---
TOTAL	1593	3450	1846	4827	3738	6339	10875	21077	21717	5831	2363	2044
MEAN	51.4	115	59.5	156	129	204	363	680	724	188	76.2	68.1
MAX	68	202	110	276	179	309	695	1510	1080	386	99	79
MIN	45	52	39	52	96	99	181	294	465	102	57	57
CFSM	.48	1.06	.55	1.44	1.19	1.89	3.36	6.30	6.70	1.74	.71	.63
IN.	.55	1.19	.64	1.66	1.29	2.18	3.75	7.26	7.48	2.01	.81	.70
AC-FT	3160	6840	3660	9570	7410	12570	21570	41810	43080	11570	4690	4050

CAL YR 1983 TOTAL 88701 MEAN 243 MAX 1730 MIN 39 CFSM 2.25 IN. 30.55 AC-FT 175900
WTR YR 1984 TOTAL 85700 MEAN 234 MAX 1510 MIN 39 CFSM 2.17 IN. 29.52 AC-FT 170000

12414200 MARBLE CREEK NEAR CALDER, ID

LOCATION.--Lat 47°13'38", long 116°01'09",in NW1/4 SW 1/4 SE1/4, sec. 24, T.43 N., R.3 E., Hydrologic Unit 17010304, in Shoshone County, on left bank 3 ft downstream from road fill of bridge abutment, 150 ft downstream from Boulder Creek, 2 mi upstream from mouth, 8 mi southeast of Calder, and 27 mi southeast of St. Maries.

DRAINAGE AREA.--138 mi2.

PERIOD OF RECORD.--October 1983 to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 2,380 ft from topographic map.

REMARKS.--Records good except for December, January, and April, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Jan. 25	0945	1740	13.89	May 30	1830	*1880	*14.11

Minimum discharge, 66 ft3/s Oct. 17, minimum gage height, 10.75 ft Oct. 16, 17.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 1-5, Jan. 16-17, 19-22)

10.7	59	11.8	320
11.[illegible]	103	12.8	850
11.[illegible]	187	14.2	1960

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	78	88	92	415	184	300	460	1360	778	142	115
2	74	98	86	92	382	201	292	490	1200	736	140	92
3	74	103	86	102	356	190	284	540	1100	694	134	89
4	78	240	86	220	332	182	292	540	1070	659	153	84
5	72	142	88	460	316	177	340	520	1210	642	147	82
6	71	221	89	570	300	174	378	510	1180	615	132	117
7	69	230	92	600	288	174	360	500	1120	560	124	103
8	69	177	109	510	277	182	415	500	1180	505	120	100
9	93	151	128	450	270	204	410	550	1120	470	117	95
10	86	172	212	400	260	253	415	582	1030	445	113	87
11	75	465	172	360	249	376	387	615	1040	420	112	84
12	72	332	153	332	253	420	374	700	1080	396	108	84
13	71	312	149	300	304	440	356	802	1160	364	106	91
14	69	277	149	246	308	455	395	1010	1200	344	105	80
15	69	263	144	227	280	480	540	1010	1270	320	103	79
16	67	316	136	210	273	460	740	920	1300	304	100	78
17	78	378	125	200	260	440	1100	832	1220	284	101	75
18	108	356	113	190	243	400	1000	820	1150	266	97	74
19	82	316	101	189	234	396	980	892	1090	249	97	73
20	76	284	90	192	234	440	970	1330	1050	230	95	94
21	74	237	83	196	230	560	900	1220	1220	218	93	131
22	106	201	77	202	218	576	880	1090	1100	204	92	122
23	122	195	75	218	212	560	870	1400	1030	198	90	118
24	89	187	76	288	207	510	840	1310	1020	187	90	93
25	82	184	76	1320	201	465	760	1180	1060	180	87	88
26	78	164	81	899	193	430	660	1230	1070	172	86	87
27	75	162	87	706	182	392	580	1310	1070	174	82	88
28	74	153	87	610	180	356	550	1290	1050	160	81	84
29	72	124	86	543	180	336	510	1420	1050	158	82	82
30	71	95	91	485	---	316	480	1710	892	160	86	82
31	76	---	92	650	---	306	---	1600	---	149	140	---
TOTAL	2447	6593	3307	11859	7637	11035	17338	28883	33712	11241	3355	2740
MEAN	78.9	220	107	383	263	356	578	932	1124	363	108	91.3
MAX	122	465	212	1320	415	576	1100	1710	1360	778	153	131
MIN	67	78	75	92	180	174	284	460	892	149	81	73
CFSM	.57	1.59	.78	2.78	1.91	2.58	4.20	6.75	8.14	2.63	.78	.66
IN.	.66	1.78	.89	3.20	2.06	2.97	4.68	7.79	9.09	3.03	.90	.74
AC-FT	4850	13080	6560	23520	15150	21890	34430	57290	66870	22300	6650	5430

WTR YR 1984 TOTAL 140167 MEAN 383 MAX 1710 MIN 67 CFSM 2.78 IN. 37.78 AC-FT 278000

12414500 ST. JOE RIVER AT CALDER, ID

LOCATION.--Lat 47°16'30", long 116°11'15", in NW1/4 SE1/4 sec.3, T.45 N., R.2 E., Shoshone County, Hydrologic Unit 17010304, on right bank 150 ft southwest of Potlatch Lumber Company railroad station at Calder, and at mile 42.9.
DRAINAGE AREA.--1,030 mi2, approximately.
PERIOD OF RECORD.--April 1911 to September 1912 (published as "near Calder"), July 1920 to current year.
REVISED RECORDS.--WSP 1182: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 2,171.76 ft National Geodetic Vertical Datum of 1929. Apr. 14, 1911, to Sept. 30, 1912, nonrecording gage at site 2.5 mi downstream at different datum. Nonrecording gage at present site July 13 to Dec. 21, 1920, water-stage recorder at present site thereafter. Datum July 13, 1920, to Sept. 30, 1966, 75 ft lower than present datum and datum Oct. 1, 1966, to Aug. 14, 1972, 15 ft lower than present datum.
REMARKS.--Records good except those for December and January, which are fair. No diversion above gage.
AVERAGE DISCHARGE.--65 years, 2,373 ft3/s, 31.29 in./yr, 1,719,000 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,000 ft3/s Dec. 23, 1933, computed on basis of slope between gages downstream; maximum gage height, 18.1 ft Apr. 18, 1938, from floodmark, present datum; minimum discharge, 87 ft3/s Nov. 29, 1979; minimum gage height, 3.43 ft Dec. 5, 1928, present datum.
EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 8,500 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Jan. 25	0600	ice jam	*15.47	May 31	0800	*14400	12.17
May 20	2000	11100	11.21				

Minimum discharge, 400 ft3/s Oct. 8, 16, 17, minimum gage height, 4.91 ft Sept. 19.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1-15, Nov. 30 to July 19, Sept. 15-30;
stage-discharge relation affected by ice Dec. 2-8, Dec. 17 to Jan. 8, Jan. 16-26)

4.9	346	7.0	2390
5.0	406	8.0	3910
5.5	760	10.0	8100
6.0	1220	12.0	14300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	427	475	619	550	2490	1190	2220	3310	9560	3360	881	863
2	421	541	580	540	2270	1380	2230	3770	7790	3120	872	596
3	418	575	560	560	2100	1380	2270	4050	6930	2930	845	533
4	433	1150	560	800	1940	1320	2340	3910	6550	2770	963	507
5	436	1090	560	1600	1820	1290	2600	3790	6680	2650	1010	493
6	421	1050	580	2400	1760	1250	3120	3630	6640	2510	872	605
7	409	1550	630	3300	1730	1250	3100	3650	6350	2360	828	728
8	405	1160	730	3300	1670	1350	3210	3580	6290	2220	768	582
9	473	971	837	2740	1640	1550	3290	4300	6180	2110	736	582
10	538	899	1200	2170	1610	1900	3260	4580	5900	2000	728	520
11	457	1750	1180	1990	1560	2840	3050	4490	5800	1900	703	493
12	424	2080	1020	1830	1540	3310	2880	4800	5860	1810	687	487
13	415	1890	971	1670	1750	3500	2790	5580	6180	1730	671	474
14	414	1760	1040	1440	1970	3440	2730	7380	6370	1660	649	461
15	408	1650	1040	1210	1830	3610	3320	8020	6590	1580	633	455
16	406	1690	944	1050	1750	3420	5400	7020	6700	1510	626	449
17	421	2020	719	1020	1660	3240	7460	6090	6350	1450	664	443
18	613	2030	641	990	1550	2970	6930	5760	5840	1380	618	430
19	499	1950	550	980	1410	2830	6900	6110	5480	1320	596	418
20	447	1830	500	990	1410	2960	6900	9790	5200	1240	575	474
21	434	1630	460	1000	1480	4100	6220	10000	5740	1200	561	684
22	480	1410	450	1020	1410	4600	5840	8130	5420	1160	561	690
23	682	1290	440	1070	1330	4260	6110	8780	4880	1130	554	703
24	549	1250	450	1300	1290	3770	5600	9390	4670	1050	540	561
25	479	1250	470	2500	1240	3340	5020	8230	4660	1050	526	491
26	456	1140	510	4900	1180	3070	4490	7620	4600	1020	513	465
27	438	1100	530	4010	1130	2730	4060	8230	4420	1020	493	459
28	426	1060	535	3380	1130	2550	3840	8310	4210	980	487	440
29	424	953	540	3160	1150	2400	3630	8830	4080	962	487	429
30	424	711	570	2950	---	2270	3390	11400	3710	980	487	423
31	441	---	560	2710	---	2220	---	13100	---	917	626	---
TOTAL	14118	39905	20976	59130	46800	81290	124200	205430	175630	53119	20660	15939
MEAN	455	1330	677	1907	1614	2622	4140	6627	5854	1714	666	531
MAX	682	2080	1200	4900	2490	4600	7460	13100	9560	3360	1010	863
MIN	405	475	440	540	1130	1190	2220	3310	3710	917	487	418
CFSM	.44	1.29	.66	1.85	1.57	2.55	4.02	6.43	5.68	1.66	.65	.52
IN.	.51	1.44	.76	2.14	1.69	2.94	4.49	7.42	6.34	1.92	.75	.58
AC-FT	28000	79150	41610	117300	92830	161200	246400	407500	348400	105400	40980	31620

CAL YR 1983 TOTAL 884624 MEAN 2424 MAX 11900 MIN 390 CFSM 2.35 IN. 31.95 AC-FT 1755000
WTR YR 1984 TOTAL 857197 MEAN 2342 MAX 13100 MIN 405 CFSM 2.27 IN. 30.96 AC-FT 1700000

12414900 ST. MARIES RIVER NEAR SANTA, ID

LOCATION.--Lat 47°10'35", long 116°29'30", in NW1/4 SE1/4 NW1/4 sec.8, T.44 N., R.1 W., Benewah County, Hydrologic Unit 17010304, on right bank 430 ft upstream from bridge on U.S. Highway 95 Alternate, 0.3 mi upstream from Santa Creek, 2.7 mi northwest of Santa, and at mile 24.6.
DRAINAGE AREA.--275 mi2.
PERIOD OF RECORD.--October 1965 to current year.
REVISED RECORDS.--WDR 1976: 1969-70(M), 1972(M). WDR 1982: 1981.
GAGE.--Water-stage recorder. Datum of gage is 2,574.56 ft National Geodetic Vertical Datum of 1929.
REMARKS.--Records good except December and January, which are fair.
AVERAGE DISCHARGE.--19 years, 365 ft3/s, 18.02 in./yr, 264,400 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft3/s Jan. 15, 1974, gage height, 12.60 ft; minimum, 15 ft3/s Nov. 11, 1979, gage height, 3.32 ft.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Mar. 15	0230	*2700	7.76	Apr. 17	0600	1650	6.57
Mar. 21	2015	2650	7.72	May 23	1930	1570	6.79

Maximum recorded gage height, 9.62 ft Jan. 26; minimum discharge, 56 ft3/s Sept. 19-20, gage height, 4.32 ft, minimum gage height, 4.30 ft, Aug. 18-21.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 19 to Jan. 10, Jan. 15-25)

3.8	39	5.8	634
4.0	78	6.3	1060
4.4	128	7.0	1800
4.9	209	8.0	3020
5.3	355		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	76	125	140	565	301	661	534	928	301	89	65
2	66	94	120	145	484	458	677	726	815	282	87	64
3	66	108	115	150	427	448	653	752	722	264	85	64
4	65	221	115	180	381	384	639	694	690	251	83	62
5	65	182	120	250	350	362	742	636	651	239	81	65
6	65	150	125	300	339	342	1000	603	942	229	78	72
7	62	267	130	730	339	351	986	561	796	220	76	81
8	62	174	135	600	322	373	1110	540	840	213	75	78
9	70	152	146	470	317	436	1170	610	1040	204	73	94
10	95	139	435	420	304	658	1110	611	891	195	70	74
11	76	494	698	352	310	1550	1060	610	913	185	69	69
12	69	364	416	328	307	1740	993	646	794	178	67	65
13	66	364	330	311	820	1880	1020	696	784	172	65	69
14	66	338	420	261	1120	1970	891	853	744	167	64	64
15	65	307	466	200	760	2470	985	928	688	161	64	63
16	65	338	344	193	621	1870	1390	1020	648	155	63	63
17	64	627	236	192	525	1620	1640	903	603	151	63	60
18	102	555	209	190	430	1360	1520	810	552	146	60	58
19	94	450	190	172	376	1270	1460	806	506	141	55	56
20	78	435	170	195	371	1380	1390	1170	475	136	57	56
21	72	409	150	200	353	2220	1280	1010	703	146	58	112
22	74	314	140	215	343	2400	1170	904	652	135	72	104
23	139	256	130	235	320	1860	1170	1260	520	115	162	112
24	96	243	125	280	307	1530	1060	1290	455	109	110	97
25	80	301	122	700	300	1260	960	1090	417	105	86	77
26	75	254	125	2160	287	1170	820	1050	395	103	79	70
27	72	233	128	1490	272	1040	708	1280	379	100	85	69
28	69	228	130	1080	276	875	652	1080	358	103	75	70
29	67	204	132	903	283	824	588	1040	349	102	69	63
30	67	133	132	739	---	740	541	1090	335	97	68	68
31	68	---	139	657	---	698	---	1070	---	93	69	---
TOTAL	2305	8410	6505	14630	12210	35830	30023	26893	19565	5198	2357	2191
MEAN	74.4	280	210	472	421	1156	1001	868	652	168	76.0	73.0
MAX	139	627	698	2160	1120	2470	1640	1290	1040	301	162	112
MIN	62	76	115	140	272	301	541	534	335	93	55	56
CFSM	.27	1.02	.76	1.72	1.53	4.20	3.64	3.16	2.37	.61	.28	.27
IN.	.31	1.14	.88	1.98	1.65	4.85	4.06	3.64	2.65	.70	.32	.30
AC-FT	4570	16680	12900	29020	24220	71070	59560	53340	38810	10310	4680	4350

CAL YR 1983 TOTAL 140908 MEAN 386 MAX 2890 MIN 62 CFSM 1.40 IN. 19.06 AC-FT 279500
WTR YR 1984 TOTAL 166122 MEAN 454 MAX 2470 MIN 56 CFSM 1.65 IN. 22.47 AC-FT 329500

12415500 COEUR D'ALENE LAKE AT COEUR D'ALENE, ID

LOCATION.--Lat 47°39'53", long 116°46'13", in NE1/4 NW1/4 SE1/4 sec.24, T.50 N., R.4 W., Kootenai County, Hydrologic Unit 17010303, 500 ft southwest of south end of Eleventh Street, Coeur d'Alene, and 113.1 mi upstream from mouth of Spokane River.
DRAINAGE AREA.--3,700 mi2, approximately.
PERIOD OF RECORD.--April 1903 to current year.
GAGE.--Water-stage recorder. Datum of gage is 2,100.00 ft, referred to originally accepted elevation of 2,157.40 ft of Geological Survey bench mark in southeast corner of Idaho First National Bank Building (see WSP 882). Gage heights reduced to elevations to that datum. Datum of gage is 2,097.00 ft National Geodetic Vertical Datum of 1929. Apr. 26, 1903, to Feb. 14, 1905, nonrecording gage at mouth of St. Joe River at datum about 18.7 ft higher than gage datum. Feb. 15, 1905, to Mar. 23, 1921, nonrecording gage and Mar. 24, 1921, to Dec. 22, 1930, water-stage recorder at Johnson wharf 900 ft southeast of railroad station and 1 mi northwest of present site at datum 19.75 ft higher than gage datum. Dec. 23, 1930, to Feb. 9, 1931, nonrecording gage at present site and datum.
REMARKS.--The Washington Water Power Co. stores water in Coeur d'Alene Lake by regulation at Post Falls Dam for power generation at Post Falls and other plants on Spokane River. Storage is within natural range of lake stage. Contents given herein are those above elevation 2,120.0 ft. Capacity of lake between elevations 2,120 ft and 2,140 ft, 569,000 acre-ft.
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 834,900 acre-ft Dec. 25, 1933, elevation, 2,139.05 ft; minimum, 2,700 acre-ft below zero of contents table Oct. 10-12, 1904, Sept. 24, 25, 1905, Oct. 14 to Nov. 3, 1906, Feb. 9, 10, 1977, elevation, 2,119.9 ft.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum contents known prior to 1903, 753,300 acre-ft May 31, 1894, elevation, 2,137.6 ft, from high-water marks.
EXTREMES FOR CURRENT YEAR.--Maximum contents, 316,300 acre-ft June 1, elevation, 2,129.55 ft; minimum, 93,000 acre-ft Jan. 4, 5, elevation 2,123.45 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

2,122.0	93,700
2,124.0	107,900
2,126.0	162,900
2,128.0	238,500
2,130.0	339,700

GAGE HEIGHT (FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.95	25.46	26.92	23.58	26.51	24.42	27.01	27.06	29.55	27.85	27.89	27.73
2	26.89	25.42	26.78	23.48	26.38	24.47	26.85	26.92	29.46	27.89	27.91	27.69
3	26.82	25.45	26.64	23.46	26.19	24.50	26.66	26.86	29.25	27.93	27.90	27.63
4	26.76	25.48	26.51	23.73	25.99	24.49	26.50	26.80	29.06	27.96	27.91	27.65
5	26.71	25.54	26.37	23.97	25.83	24.46	26.39	26.73	28.86	27.95	27.93	27.62
6	26.67	25.63	26.25	24.34	25.67	24.43	26.36	26.65	28.71	27.91	27.95	27.58
7	26.62	25.74	26.15	24.77	25.56	24.38	26.34	26.55	28.56	27.87	27.94	27.52
8	26.56	25.79	25.98	25.16	25.49	24.35	26.44	26.47	28.43	27.84	27.93	27.49
9	26.54	25.83	25.93	25.42	25.41	24.38	26.51	26.41	28.32	27.85	27.94	27.44
10	26.51	25.91	25.93	25.64	25.34	24.48	26.59	26.40	28.24	27.85	27.94	27.38
11	26.45	26.03	25.97	25.78	25.26	24.77	26.62	26.42	28.12	27.92	27.94	27.32
12	26.37	26.14	25.97	25.95	25.21	25.16	26.67	26.42	28.02	27.96	27.95	27.25
13	26.32	26.24	25.93	25.87	25.32	25.63	26.71	26.52	27.92	27.98	27.94	27.22
14	26.25	26.31	25.93	25.87	25.49	26.08	26.69	26.76	27.86	27.97	27.92	27.15
15	26.19	26.37	25.93	25.79	25.54	26.66	26.71	27.12	27.79	27.97	27.94	27.11
16	26.11	26.46	25.87	25.72	25.55	26.97	26.92	27.37	27.72	27.99	27.94	27.07
17	26.09	26.64	25.79	25.64	25.51	27.19	27.36	27.47	27.63	27.98	27.95	27.01
18	26.04	26.83	25.66	25.50	25.40	27.27	27.77	27.48	27.50	27.95	27.95	26.96
19	25.98	27.03	25.54	25.35	25.29	27.30	28.03	27.54	27.41	27.95	27.96	26.93
20	25.92	27.23	25.38	25.20	25.19	27.33	28.24	27.72	27.50	27.93	27.94	26.91
21	25.88	27.33	25.22	25.08	25.13	27.65	28.38	28.06	27.66	27.92	27.93	26.88
22	25.88	27.38	25.04	25.03	25.03	27.98	28.43	28.29	27.63	27.91	27.92	26.84
23	25.84	27.38	24.77	24.98	24.92	28.21	28.44	28.45	27.57	27.95	27.92	26.81
24	25.78	27.42	24.60	24.98	24.84	28.25	28.43	28.65	27.55	27.98	27.88	26.80
25	25.74	27.39	24.39	25.38	24.74	28.23	28.34	28.82	27.65	27.99	27.85	26.74
26	25.70	27.37	24.24	26.13	24.63	28.13	28.17	28.89	27.73	28.00	27.83	26.67
27	25.64	27.32	24.12	26.31	24.53	27.98	27.98	28.96	27.76	27.98	27.81	26.62
28	25.58	27.26	24.00	26.64	24.46	27.78	27.73	29.02	27.81	27.97	27.76	26.58
29	25.51	27.18	23.90	26.68	24.41	27.57	27.50	29.07	27.87	27.94	27.73	26.53
30	25.49	27.06	23.80	26.67	---	27.37	27.26	29.23	27.87	27.91	27.70	26.43
31	25.49	---	23.70	26.64	---	27.19	---	29.44	---	27.90	27.73	---
MEAN	26.17	26.49	25.46	25.32	25.34	26.29	27.27	27.57	28.10	27.93	27.90	27.12
MAX	26.95	27.42	26.92	26.68	26.51	28.25	28.44	29.44	29.55	28.00	27.96	27.73
MIN	25.49	25.42	23.70	23.46	24.41	24.35	26.34	26.40	27.41	27.84	27.70	26.43
(†)	148600	197600	99700	182500	119100	202500	205300	310600	232300	233700	225700	177300
(‡)	-47100	+49000	-97900	+82800	-63400	+83400	+2800	+105300	-78300	+1400	-8000	-48400

CAL YR 1983 MEAN 26.86 MAX 29.13 MIN 23.43 ‡ -7900
WTR YR 1984 MEAN 26.75 MAX 29.55 MIN 23.46 ‡ -18400

† Contents, in acre feet, at end of month.
‡ Change in contents, in acre-feet.

Note.--Add 2,100 ft to obtain elevation.

12416000 HAYDEN CREEK BELOW NORTH FORK, NEAR HAYDEN LAKE, ID
(Hydrologic bench-mark station)

LOCATION.--Lat 47°49'22", long 116°39'10", in NW1/4 NW1/4 SW1/4 sec.25, T.52 N., R.3 W., Kootenai County, Hydrologic Unit 17010305, Coeur d'Alene National Forest, on right bank 0.3 mi downstream from confluence of East Fork and North Fork, and 7.5 mi northeast of Hayden Lake Post Office.
DRAINAGE AREA.--22.0 mi2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1948 to December 1953, October 1958 to September 1959, September 1961 to September 1965 (annual maximum), October 1965 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 2,370 ft, from topographic map. April 22 to Nov. 1, 1948, nonrecording gage and Nov. 2, 1948 to June 26, 1951, water-stage recorder at site 200 ft downstream at datum 0.98 ft lower. June 27, 1951 to Dec. 4, 1953, Oct. 1, 1958 to Sept. 30, 1959, water-stage recorder, Sept. 15, 1961 to Sept. 30, 1965, crest-stage gage, at datum 0.47 ft higher.
REMARKS.--Records good except for December, January, and February, which are fair.
AVERAGE DISCHARGE.--23 years (1949-53, 1959, 1966-84), 29.3 ft3/s, 18.09 in./yr, 21,230 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,280 ft3/s Feb. 21, 1982, gage height, 5.69 ft, present site and datum, from rating curve extended above 365 ft3/s on basis of slope-area measurement; minimum discharge recorded, 1.7 ft3/s Aug. 19-20, 1977, gage height, 2.25 ft; minimum gage height, 2.19 ft Dec. 12, 1972.
EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 200 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Mar. 15	0830	*231	3.64	Mar. 23	1715	204	3.59

Maximum gage height, 4.33 ft (date unknown - ice jam); minimum discharge, 4.0 ft3/s Oct. 15-17, 20-22, 27-30, minimum gage height, 2.33 ft Oct. 11, 12, 15-17.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 10-11, 17-18, Dec. 20 to Jan. 1; shifting-control method used July 27 to Aug. 20, Aug. 26 to Sept. 19)

2.3	2.9	2.8	26
2.4	4.3	2.9	39
2.5	6.4	3.1	74
2.6	10	3.4	164
2.7	16	3.7	300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	8.5	12	5.5	46	28	49	30	60	36	12	7.1
2	4.8	6.4	12	6.0	42	35	45	31	51	35	12	6.4
3	4.8	6.4	11	15	37	38	40	32	45	33	11	5.8
4	4.8	27	9.3	26	34	38	39	30	45	32	11	6.0
5	4.4	8.9	8.5	48	32	36	42	30	46	30	11	5.8
6	4.4	15	8.3	60	30	36	50	31	45	28	11	7.1
7	4.4	13	7.7	71	29	35	53	29	45	26	10	6.2
8	4.4	6.5	8.0	68	27	35	67	31	55	26	9.7	6.2
9	4.6	7.1	8.1	61	26	38	73	33	96	26	9.1	6.2
10	4.6	7.1	12	54	26	51	81	35	120	24	9.0	5.8
11	4.2	17	18	48	25	94	74	36	101	22	8.7	5.8
12	4.2	16	20	38	26	150	75	36	80	22	8.3	5.8
13	4.2	13	20	32	30	192	73	38	68	20	8.2	5.9
14	4.2	20	20	26	36	192	72	46	60	20	8.2	5.6
15	4.2	24	20	23	51	222	81	50	56	18	8.1	5.1
16	4.0	33	18	20	49	180	149	46	51	18	7.8	5.1
17	4.8	45	15	20	46	146	163	41	46	18	7.6	5.1
18	4.9	49	12	19	42	117	127	38	45	18	7.6	4.9
19	4.4	48	11	19	38	108	96	41	44	16	7.4	4.9
20	4.0	41	9.6	20	35	102	89	51	44	16	7.2	5.2
21	4.0	34	7.8	20	34	139	81	50	58	15	6.8	5.8
22	9.4	28	6.9	22	34	188	76	46	72	15	6.6	7.2
23	6.2	22	6.1	23	33	196	71	76	79	15	6.5	7.0
24	4.8	21	5.8	25	32	177	63	129	72	14	6.5	6.6
25	4.6	20	5.6	29	30	157	54	115	62	14	6.8	6.2
26	4.4	16	5.5	29	26	125	45	100	54	14	6.4	5.7
27	4.0	16	5.4	32	24	90	39	108	48	13	6.8	5.5
28	4.0	15	5.4	40	26	74	37	114	45	13	6.8	5.6
29	4.0	15	5.4	45	26	64	33	98	44	13	6.8	5.3
30	4.6	14	5.4	50	---	57	31	90	39	13	6.8	5.2
31	13	---	5.3	48	---	53	---	75	---	12	6.8	---
TOTAL	151.7	612.9	325.3	1042.5	972	3193	2068	1736	1776	635	258.7	175.8
MEAN	4.89	20.4	10.5	33.6	33.5	103	68.9	56.0	59.2	20.5	8.35	5.86
MAX	13	49	20	71	51	222	163	129	120	36	12	7.2
MIN	4.0	6.4	5.4	5.5	24	28	31	29	39	12	6.4	4.9
CFSM	.22	.93	.48	1.53	1.52	4.68	3.13	2.55	2.69	.93	.38	.27
IN.	.26	1.04	.55	1.76	1.64	5.40	3.50	2.94	3.00	1.07	.44	.30
AC-FT	301	1220	645	2070	1930	6330	4100	3440	3520	1260	513	349

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CAL YR 1983   TOTAL  12612.0   MEAN  34.6   MAX  228   MIN  4.0   CFSM 1.57   IN. 21.33   AC-FT 25020
WTR YR 1984   TOTAL  12946.9   MEAN  35.4   MAX  222   MIN  4.0   CFSM 1.61   IN. 21.89   AC-FT 25680
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BEST COPY AVAILABLE

12416000 HAYDEN CREEK BELOW NORTH FORK, NEAR HAYDEN LAKE, ID--Continued
(Hydrologic bench-mark station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV 22...	0921	28	60	7.5	.0	4.0	12.0	100	K4	K3	32
FEB 22...	1000	35	54	7.2	1.0	2.0	--	--	46	K2	26
JUN 12...	0900	84	51	7.8	15.0	7.0	12.7	114	--	K5	26
SEP 19...	1000	5.0	69	7.3	15.0	11.0	14.1	139	K1	190	36

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV 22...	8.6	2.5	1.4	9	.1	.70	31	3.0	.90	<.10	14
FEB 22...	7.0	2.1	1.3	10	.1	.50	29	3.0	.50	<.10	13
JUN 12...	7.3	1.8	1.3	10	.1	.60	22	2.6	.40	<.10	13
SEP 19...	9.6	2.8	1.6	9	.1	1.1	38	3.6	.50	<.10	12

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 22...	49	50	.07	3.7	.16	.020	.30	<.010	<.010	.010
FEB 22...	43	45	.06	4.1	<.10	.110	.20	.010	.010	.050
JUN 12...	36	40	.05	8.2	<.10	.020	.20	.010	.010	.010
SEP 19...	56	54	.08	.76	<.10	.020	<.20	.010	<.010	<.010

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV 22...	<1	40	10	<.5	<1	1	<3	<1	35	1
JUN 12...	<1	20	9	1	<1	<1	<3	2	16	<1

K Results based on counts outside ideal colony count range.

12416000 HAYDEN CREEK BELOW NORTH FORK, NEAR HAYDEN LAKE, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV										
22...	5	2	<.1	<10	2	<1	<1	19	<6	12
JUN										
12...	<4	2	.5	<10	3	<1	<1	16	<6	19

DATE	SEDI-MENT, SUS-PENDED (MG/L)
NOV	
22...	4
FEB	
22...	2
JUN	
12...	4
SEP	
19...	2

12417000 HAYDEN LAKE AT HAYDEN LAKE, ID

LOCATION.--Lat 47°44'58", long 116°44'21", in SE1/4 NW1/4 SW1/4 sec.20, T.51 N., R.3 W., Kootenai County, Hydrologic Unit 17010305, at Tobler Marina, 2.3 mi east-southeast of Hayden Lake Post Office.

DRAINAGE AREA.--62.3 mi2.

PERIOD OF RECORD.--May 1920 to current year.

REVISED RECORDS.--WDR ID 1981-2: 1980 gage heights.

GAGE.--Nonrecording gage read once daily. Datum of gage is 2,200.21 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1925, at datum 30.35 ft higher. Oct. 1, 1925, to Mar. 26, 1931, at datum 21.60 ft higher. Mar. 26, 1931, to Apr. 4, 1951, at Avondale pumping plant in Bozanta Tavern Bay across lake 1.5 mi northwest of present site.

REMARKS.--Water is pumped from lake for irrigation and domestic supply. Lake has no natural surface outlet. Some surface flow leaves the lake during high stages (most years) through a controlled outlet in the dike at the southeast corner. Due to the permeability of the lakebed and outlet area, the excess flow leaves the area by infiltration to the ground water of Rathdrum Prairie.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 42.66 ft Apr. 22, 1956; minimum observed, 19.38 ft Dec. 16, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 39.48 ft Apr. 21; minimum observed, 35.40 ft Oct. 29.

GAGE HEIGHT (FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
0800 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.87	35.45	36.02	36.22	37.03	37.68	39.25	39.24	39.15	38.80	37.62	36.34
2	35.85	35.46	36.01	36.22	37.04	37.70	39.24	39.22	39.14	38.75	37.58	36.27
3	35.82	35.48	36.01	36.22	37.06	37.72	39.21	39.20	39.13	38.73	37.55	36.22
4	35.80	35.49	36.00	36.24	37.08	37.74	39.18	39.18	39.13	38.70	37.51	36.18
5	35.78	35.52	36.00	36.29	37.11	37.76	39.19	39.15	39.12	38.69	37.45	36.14
6	35.76	35.53	36.00	36.35	37.13	37.77	39.19	39.14	39.09	38.68	37.42	36.14
7	35.73	35.56	36.00	36.42	37.16	37.78	39.20	39.10	39.07	38.60	37.38	36.09
8	35.70	35.56	35.99	36.49	37.19	37.78	39.20	39.09	39.06	38.50	37.32	36.04
9	35.68	35.55	36.01	36.53	37.22	37.78	39.20	39.08	39.13	38.47	37.28	36.00
10	35.66	35.53	36.02	36.56	37.25	37.83	39.22	39.05	39.14	38.43	37.26	35.97
11	35.64	35.57	36.05	36.58	37.28	37.90	39.25	39.01	39.14	38.40	37.22	35.94
12	35.61	35.60	36.09	36.65	37.30	37.96	39.30	39.00	39.17	38.34	37.20	35.92
13	35.59	35.62	36.14	36.71	37.32	38.03	39.30	39.00	39.18	38.30	37.12	35.90
14	35.58	35.66	36.16	36.74	37.34	38.15	39.30	38.99	39.15	38.28	37.08	35.85
15	35.54	35.69	36.18	36.76	37.38	38.30	39.32	38.98	39.12	38.25	37.03	35.82
16	35.52	35.70	36.20	36.79	37.43	38.10	39.35	38.96	39.10	38.20	36.99	35.80
17	35.50	35.78	36.22	36.77	37.47	38.51	39.38	38.94	39.07	38.16	36.95	35.77
18	35.52	35.83	36.22	36.76	37.50	38.59	39.40	38.91	39.05	38.14	36.90	35.74
19	35.50	35.88	36.22	36.75	37.53	38.66	39.43	38.90	39.02	38.10	36.85	35.70
20	35.50	35.91	36.22	36.75	37.55	38.70	39.45	38.92	39.00	38.05	36.80	35.70
21	35.48	35.94	36.22	36.75	37.58	38.80	39.48	38.92	39.04	37.96	36.78	35.70
22	35.49	35.95	36.22	36.78	37.60	38.91	39.47	38.91	39.05	37.90	36.72	35.71
23	35.50	35.96	36.22	36.81	37.61	38.96	39.45	38.90	39.04	37.89	36.69	35.70
24	35.49	35.97	36.22	36.85	37.62	39.00	39.44	38.90	39.04	37.85	36.62	35.68
25	35.47	36.00	36.22	36.88	37.63	39.18	39.41	38.94	39.03	37.82	36.59	35.64
26	35.45	36.01	36.22	36.93	37.65	39.25	39.38	38.97	39.00	37.79	36.55	35.60
27	35.44	36.02	36.22	36.95	37.65	39.29	39.35	39.10	38.96	37.76	36.48	35.58
28	35.42	36.02	36.22	36.98	37.66	39.30	39.31	39.18	38.92	37.75	36.41	35.55
29	35.40	36.02	36.22	36.99	37.66	39.30	39.28	39.17	38.93	37.72	36.38	35.54
30	35.42	36.02	36.22	37.01	---	39.29	39.25	39.16	38.65	37.70	36.33	35.52
31	35.44	---	36.22	37.02	---	39.27	---	39.16	---	37.66	36.34	---
MEAN	35.59	35.74	36.13	36.67	37.38	38.42	39.31	39.04	39.07	38.20	36.98	35.88
MAX	35.87	36.02	36.22	37.02	37.66	39.30	39.48	39.24	39.18	38.80	37.62	36.34
MIN	35.40	35.45	35.99	36.22	37.03	37.68	39.18	38.90	38.65	37.66	36.33	35.52

CAL YR 1983 MEAN 37.31 MAX 40.02 MIN 35.40
WTR YR 1984 MEAN 37.37 MAX 39.48 MIN 35.40

12418000 RATHDRUM PRAIRIE CANAL AT HUETTER, ID

LOCATION.--Lat 47°42'36", long 116°52'16", in SE1/4 SE1/4 NE1/4 sec.6, T.50 N., R.4 W., Kootenai County, Hydrologic Unit 17010305, on left bank 171 ft downstream from outlet of discharge pipe, 0.6 mi north of pumping plant, and 0.8 mi northwest of Huetter.

PERIOD OF RECORD.--October 1945 to current year. Monthly discharge only for October 1945 to March 1946, published in WSP 1316.

GAGE.--Water-stage recorder. Datum of gage is 2,272.02 ft National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to Oct. 3, 1967, water-stage recorder at site 365 ft upstream at datum 1.00 ft higher.

REMARKS.--Records good. Canal carries water which is pumped from Spokane River in sec.7, T.50 N., R.4 W., for irrigation of first unit of Rathdrum Prairie project about 3,000 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 66 ft3/s June 29 to July 2, 1947; no flow for long periods in each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	27	49	43	28
2	.00	.00	.00	.00	.00	.00	.00	.00	27	50	39	28
3	.00	.00	.00	.00	.00	.00	.00	.00	25	50	41	28
4	.00	.00	.00	.00	.00	.00	.00	.00	26	45	42	28
5	.00	.00	.00	.00	.00	.00	.00	.00	26	50	37	27
6	.00	.00	.00	.00	.00	.00	.00	.00	26	50	30	27
7	.00	.00	.00	.00	.00	.00	.00	.00	26	50	37	27
8	.00	.00	.00	.00	.00	.00	.00	.00	20	49	32	26
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	49	41	26
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	49	41	22
11	.00	.00	.00	.00	.00	.00	.00	.00	16	49	42	22
12	.00	.00	.00	.00	.00	.00	.00	.00	28	49	42	21
13	.00	.00	.00	.00	.00	.00	.00	.00	26	49	42	21
14	.00	.00	.00	.00	.00	.00	.00	.00	27	49	42	21
15	.00	.00	.00	.00	.00	.00	.00	.00	35	49	42	20
16	.00	.00	.00	.00	.00	.00	.00	.00	42	49	42	20
17	.00	.00	.00	.00	.00	.00	.00	4.6	42	49	34	5.0
18	.00	.00	.00	.00	.00	.00	.00	.00	43	48	31	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	47	48	31	17
20	.00	.00	.00	.00	.00	.00	.00	.00	48	49	31	12
21	.00	.00	.00	.00	.00	.00	.00	13	37	48	10	.00
22	.00	.00	.00	.00	.00	.00	.00	23	30	48	21	.00
23	.00	.00	.00	.00	.00	.00	.00	23	30	48	34	.00
24	.00	.00	.00	.00	.00	.00	.00	24	38	47	42	.00
25	.00	.00	.00	.00	.00	.00	.00	26	43	47	41	.00
26	.00	.00	.00	.00	.00	.00	.00	7.7	45	47	41	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	47	47	41	.00
28	.00	.00	.00	.00	.00	.00	.00	14	49	47	41	.00
29	.00	.00	.00	.00	.00	.00	.00	24	49	47	41	.00
30	.00	.00	.00	.00	---	.00	.00	26	50	45	40	.00
31	.00	---	.00	.00	---	.00	---	25	---	43	34	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	210.30	975.00	1495	1148	426.00
MEAN	.00	.00	.00	.00	.00	.00	.00	6.78	32.5	48.2	37.0	14.2
MAX	.00	.00	.00	.00	.00	.00	.00	26	50	50	43	28
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	43	10	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	417	1930	2970	2280	845

CAL YR 1983 TOTAL 3761.40 MEAN 10.3 MAX 45 MIN .00 AC-FT 7460
WTR YR 1984 TOTAL 4254.30 MEAN 11.6 MAX 50 MIN .00 AC-FT 8440

12419000 SPOKANE RIVER NEAR POST FALLS, ID

LOCATION.--Lat 47°42'11", long 116°58'37", in SW1/4 SW1/4 SW1/4 sec.4, T.50 N., R.5 W., Kootenai County, Hydrologic Unit 17010305, on right bank 1 mi downstream from powerplant of Washington Water Power Co., 1.5 mi southwest of Post Falls, and at mile 100.7.

DRAINAGE AREA.--3,840 mi2, approximately, of which about 122 mi2 in the vicinity of Hayden Lake is noncontributing to this station.

PERIOD OF RECORD.--October 1912 to current year (prior to January 1913 monthly discharge only, published in WSP 870 and 1736). Prior to October 1949, published as "at Post Falls."

GAGE.--Water-stage recorder. Datum of gage is 2,050 ft referred to originally accepted elevation of 2,157.40 ft for the Geological Survey bench mark in southeast corner of Idaho First National Bank Building (see WSP 882). National Geodetic Vertical Datum of 1929 is at 2,047.00 ft gage datum. Jan. 1, 1913, to Nov. 21, 1920, nonrecording gage and Nov. 22, 1920, to Sept. 15, 1934, recording gage 0.6 mi upstream. From Sept. 16, 1934, to Nov. 15, 1949, recording gage 0.8 mi upstream. From Nov. 16, 1949, at present site. Datum of all gages prior to Sept. 30, 1964, 50 ft lower.

REMARKS.--Records good. Rathdrum Prairie Canal (see sta 12418000) diverts water above gage for irrigation. Figures of daily discharge do not include water diverted by this canal. Flow regulated by dam at Post Falls and affected by storage in Coeur d'Alene Lake (see sta 12415500).

AVERAGE DISCHARGE.--River only, 72 years, 6,297 ft3/s, 4,562,000 acre-ft/yr; combined river and diversions above gage, 72 years, 6,379 ft3/s, 4,622,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,100 ft3/s when recorder was not operating Dec. 25, 1933 (determined from unpublished records collected by Washington Water Power Co. for station at Liberty Bridge); minimum, 65 ft3/s July 25, 30, 1973; minimum gage height, 4.68 ft July 20, 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,400 ft3/s June 1, gage height, 18.03 ft; minimum, 231 ft3/s Aug. 2, gage height, 5.39 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1970	1980	5090	4000	11200	5410	12200	12800	19300	6550	1490	1040
2	1960	1980	5270	4160	11000	5410	11600	12300	19500	4920	1260	1050
3	1960	1990	5280	4180	10700	5740	11600	12100	19100	4560	1380	1060
4	1860	1950	5280	4200	9900	5930	11200	12000	18600	4550	1170	1330
5	1610	1860	5190	5330	9290	5930	11000	11900	18200	4900	988	1670
6	1610	1880	5120	5770	8320	5880	10800	11800	17700	5110	1020	1740
7	1610	1870	5100	5420	7210	5910	10800	11600	17300	4720	974	1730
8	1600	1850	5130	5470	6770	5760	10800	11300	17000	4330	1040	1730
9	1610	1840	5120	5500	6740	5400	11000	11300	16700	3560	985	1730
10	1610	1850	5030	5520	6720	5440	11100	11200	16400	2700	951	1730
11	1830	2390	4930	5460	6670	5750	11200	11100	16200	2450	950	1730
12	1980	2890	4890	5410	6640	7330	11300	11200	15500	2350	946	1730
13	1970	3320	4910	5460	7250	8220	11100	11200	15300	2250	940	1730
14	1930	3710	5120	5460	8100	9380	11300	11500	15200	2580	800	1710
15	1960	3700	4860	5470	8400	8680	11300	12400	15000	2700	604	1710
16	1970	3610	4900	5460	8380	12000	11500	13300	14800	2180	652	1740
17	1970	3570	4890	5460	8400	12800	12700	13800	14600	2550	633	1740
18	1970	3630	4890	5420	8310	13200	14200	14100	14200	2730	630	1740
19	1960	3590	4880	5400	7770	13300	15500	14100	11600	2250	631	1720
20	1960	4000	4860	5410	7500	13300	16100	14400	8790	2050	637	1740
21	1960	4310	4910	5410	7410	14100	16500	15400	9150	1580	651	1750
22	1980	4150	5000	5450	7350	15100	16800	16100	11900	1430	820	1760
23	1980	4080	5030	5450	7300	16200	16900	16700	11600	999	1040	1760
24	1970	4370	5030	5470	6990	16600	16900	17100	9790	1340	1050	1770
25	1970	4640	5030	6770	6840	16600	16800	17500	7490	1540	1040	1770
26	1970	4660	5030	9020	6520	16300	16400	17900	7580	1560	1040	1770
27	1970	4660	4800	10800	6090	15900	15900	18100	7670	1920	1040	1770
28	1970	4630	4400	11300	5630	15200	15300	18200	7050	2150	1040	1770
29	1980	4640	4200	11400	5300	14700	14500	18300	6070	2160	1010	1770
30	1990	4810	4100	11400	---	13200	14000	18600	6890	1980	1050	1800
31	1990	---	4100	11300	---	12500	---	19000	---	1630	934	---
TOTAL	58660	98430	152370	197730	224680	327170	398300	438300	407180	88259	29396	49800
MEAN	1892	3281	4915	6378	7748	10550	13280	14140	13570	2847	948	1660
MAX	1990	4810	5280	11400	11200	16600	16900	19000	19500	6550	1490	1800
MIN	1600	1840	4100	4000	5300	5400	10800	11100	6870	999	604	1040
AC-FT	116400	195200	302200	392200	445700	648900	790000	869400	807600	175100	58310	98780
(†) MEAN	1892	3281	4951	6378	7748	10550	13280	14150	13600	2895	985	1674
(†) AC-FT	116400	195200	302200	392200	445700	648900	790000	869800	809600	178000	60580	99620

CAL YR 1983 TOTAL 2356363 MEAN 6456 MAX 18700 MIN 353 AC-FT 4674000 MEAN 6466 AC-FT 4681000
WTR YR 1984 TOTAL 2470275 MEAN 6749 MAX 19500 MIN 604 AC-FT 4900000 MEAN 6761 AC-FT 4908000

† Adjusted for diversion through Rathdrum Prairie Canal.

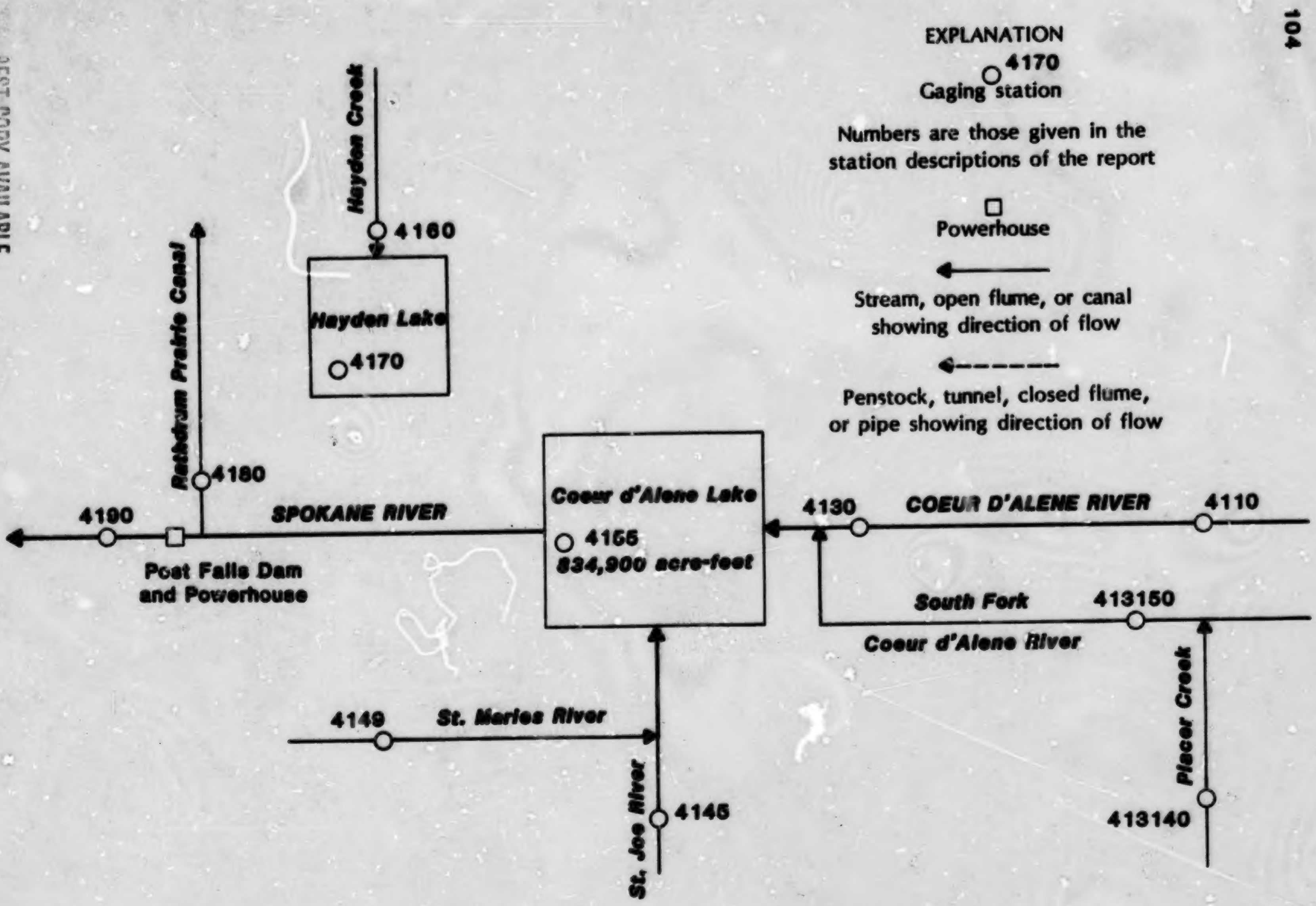
EXPLANATION
4170
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow
Hayden Creek
4160
Hayden Lake
4170
Rathdrum Prairie Canal
4180
4190
SPOKANE RIVER
Post Falls Dam and Powerhouse
Coeur d'Alene Lake
4155
834,900 acre-feet
4130
COEUR D'ALENE RIVER
4110
South Fork
413150
Coeur d'Alene River
Placer Creek
413140
4149
St. Maries River
St. Joe River
4145

Figure 14. -- Gaging stations in Spokane River basin.

SNAKE RIVER BASIN

SNAKE RIVER MAIN STEM

13010200 SNAKE RIVER ABOVE JACKSON LAKE AT FLAGG RANCH, WY

LOCATION.--Lat 44°05'21", long 110°41'38", in T.48 N., R.115 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on left bank 50 ft upstream of State Highway 89 bridge, 2 mi downstream of the south boundary of Yellowstone National Park, 600 ft downstream of the confluence with Sheffield Creek.

DRAINAGE AREA.--486 mi2.

PERIOD OF RECORD.--October 1983 to September 1984.

GAGE.--Water-stage recorder. Datum of the gage is 6,801.61 ft, National Geodetic Vertical Datum of 1929 (levels by U.S. Coast and Geodetic Survey). A nonrecording cantilever chain gage was used from 1913-18 at a site 2.5 mi upstream at a different datum. In 1918, an auxiliary chain gage was installed at the current site and read periodically. Water-stage recorder installed July 1921 at the current site at a different datum and operated until July 1925. Records probably not comparable.

REMARKS.--No diversion or regulation above station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,000 ft3/s, May 31, gage height, 8.39 ft; minimum discharge, 331 ft3/s Mar. 5, gage height, 3.37 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used June 12-17)

3.5	310	6.0	2820
4.0	520	7.0	5220
5.0	1320	8.0	8960
		8.3	10520

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	770	570	600	395	380	358	357	490	6680	2700	751	494
2	780	565	595	395	385	364	355	507	4890	2420	695	463
3	770	560	590	390	395	364	348	514	4460	2270	671	454
4	740	560	585	390	390	357	354	506	3640	2120	656	465
5	720	560	590	395	380	352	359	528	3840	1970	639	440
6	700	565	595	420	385	352	367	520	3520	1810	656	447
7	690	585	600	440	390	356	371	508	3300	1720	635	463
8	670	600	605	435	380	356	363	515	3040	1610	603	450
9	650	610	610	420	385	356	364	578	2660	1460	582	452
10	640	625	615	435	395	356	364	655	2500	1330	562	432
11	660	645	610	390	390	356	366	685	2640	1240	550	425
12	690	650	600	380	390	359	352	902	2620	1150	543	429
13	710	645	595	365	395	359	364	1420	2940	1080	533	417
14	740	640	585	350	399	377	356	2480	3630	1010	532	412
15	760	640	590	340	380	377	378	3840	4570	957	521	408
16	770	640	590	345	379	384	418	3670	4700	915	619	422
17	750	645	575	360	383	384	468	2620	5110	875	593	416
18	740	655	560	355	376	380	545	2560	4670	840	547	405
19	730	660	540	345	373	378	607	3040	4080	825	536	404
20	710	655	515	335	369	374	613	4070	4540	968	588	400
21	700	640	480	350	367	376	565	3990	4450	889	543	445
22	670	615	440	370	367	373	559	3080	4230	870	521	469
23	620	600	405	359	366	365	587	3440	3830	1040	513	460
24	590	595	390	360	366	368	563	3520	3920	970	537	469
25	580	585	395	375	368	368	568	3160	4150	793	518	448
26	580	580	405	385	367	374	539	3120	4180	771	527	435
27	590	580	415	385	359	362	508	3140	3900	769	499	431
28	590	580	420	380	358	355	491	3320	3700	756	480	427
29	590	580	420	370	360	371	502	4510	3510	745	462	415
30	580	585	415	360	---	356	489	6510	3230	727	451	414
31	580	---	405	370	---	361	---	9350	---	693	474	---
TOTAL	21060	18215	16335	11700	10977	11328	13440	77748	117130	38093	17537	13095
MEAN	679	607	527	377	379	365	448	2508	3904	1229	566	437
MAX	780	660	615	440	399	384	613	9350	6680	2700	751	494
MIN	580	560	390	335	358	352	348	490	2500	693	451	400
CFSM	1.40	1.25	1.08	.78	.78	.75	.92	5.16	8.03	2.53	1.16	.90
IN.	1.61	1.39	1.25	.90	.84	.87	1.03	5.95	8.97	2.92	1.34	1.00
AC-FT	41770	36130	32400	23210	21770	22470	26660	154200	232300	75560	34780	25980

WTR YR 1984 TOTAL 366661 MEAN 1002 MAX 9350 MIN 335 CFSM 2.06 IN. 28.07 AC-FT 727300

Note.--No gage-height record Oct. 2 to Nov. 3.

BEST COPY AVAILABLE

SNAKE RIVER MAIN STEM

13011000 SNAKE RIVER NEAR MORAN, WY

LOCATION.--Lat 43°51'31", long 110°35'09", in SW1/4 SE1/4 sec.18, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on left bank 1,000 ft downstream from Jackson Lake Dam, 4.1 mi west of Moran, and at mile 988.7.

DRAINAGE AREA.--807 mi2. Mean altitude, 8,040 ft.

PERIOD OF RECORD.--September 1903 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "South Fork Snake River at Moran" prior to October 1910 and as "Snake River at Moran" October 1910 to September 1968.

REVISED RECORDS.--WSP 1217: 1944(m). WSP 1347: 1906-10. WDR Idaho 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,727.84 ft National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to June 13, 1917, nonrecording gage, and June 14, 1917, to May 20, 1940, water-stage recorder, at site 1.5 mi downstream at different datums.

REMARKS.--Records excellent. Flow regulated by Jackson Lake.

COOPERATION.--Gage readings for current reporting purposes furnished by U.S. Bureau of Reclamation.

AVERAGE DISCHARGE.--81 years, 1,449 ft3/s, 1,050,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft3/s June 12, 1918, gage height, 10.41 ft site and datum then in use; maximum gage height 10.74 ft June 25, 1981; minimum, 0.30 ft3/s Oct. 26, 27, 28, 1969, gage height, 0.89 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood during early June 1894 was considerably higher than that of June 12, 1918.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,130 ft3/s July 11, gage height, 9.59 ft; minimum, 97 ft3/s Nov. 4, gage height 1.73 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Mar. 23 to Apr. 24)

2.5	346	5.0	2110
3.0	581	6.0	3260
4.0	1220	8.0	6290
		10.0	9910

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	540	981	808	826	608	510	496	1390	6210	3520	2380	2920
2	543	981	807	826	608	510	486	1530	6220	3840	2380	2910
3	507	981	810	826	571	500	486	1860	6240	5150	2380	2900
4	506	894	812	826	510	500	488	2350	5700	6160	2500	4050
5	505	994	810	826	510	501	490	2630	4130	6500	2490	5370
6	502	994	807	826	515	500	490	2620	4130	6470	2480	5330
7	491	1010	811	826	515	501	489	2660	4140	6740	2580	5270
8	481	1310	812	826	515	500	490	2600	4140	7250	2860	5240
9	483	1590	814	826	515	500	490	2600	4140	7830	2850	5200
10	482	1490	813	826	515	500	488	2590	4150	8620	2820	5150
11	689	1420	814	826	515	500	487	2590	4170	8980	2810	4400
12	826	1420	814	826	515	501	485	2590	4160	8930	2800	4610
13	826	1420	814	826	515	496	486	2590	3650	8920	2790	3360
14	1020	1420	814	826	515	495	486	2600	991	8970	2770	3520
15	1130	1420	814	826	515	496	486	2610	1020	8960	2710	5590
16	1130	1420	814	832	515	499	487	2610	1020	9000	2710	5650
17	1120	1190	815	832	515	495	486	2610	1020	9020	2700	5670
18	1120	1410	814	832	515	495	491	2620	2140	8370	2700	5700
19	1130	1410	814	832	515	495	491	2620	4210	5730	2700	5780
20	1130	1410	814	750	516	497	491	2630	2980	3420	2740	5860
21	946	1410	816	614	517	500	491	2640	2110	3110	2780	6330
22	832	1410	820	614	510	500	495	2650	2640	3070	2780	6600
23	832	1180	820	614	511	495	571	2660	3090	3070	2780	6570
24	1020	815	820	614	512	495	718	2680	3110	2930	2770	6690
25	1120	807	826	614	510	495	783	2690	3120	2570	2770	6650
26	1120	807	826	608	511	495	1000	2700	3160	2380	2780	6540
27	1120	807	826	608	512	495	1120	2690	2770	2390	2800	6430
28	1120	807	826	608	512	495	1270	2700	2510	2390	2790	6320
29	1120	808	826	608	512	496	1270	3280	2500	2390	2780	6220
30	1120	807	826	608	---	498	1270	4210	3150	2390	2840	3120
31	1090	---	826	608	---	496	---	5770	---	2380	2920	---
TOTAL	26601	34823	25303	23186	15140	15451	18757	83570	102521	171450	83940	157950
MEAN	858	1161	816	748	522	498	625	2696	3417	5531	2708	5265
MAX	1130	1590	826	832	608	510	1270	5770	6240	9020	2920	6690
MIN	481	807	807	608	510	495	485	1390	991	2380	2380	2900
AC-FT	52760	69070	50190	45990	30030	30650	37200	165800	203400	340100	166500	313300

CAL YR 1983 TOTAL 632338 MEAN 1732 MAX 9030 MIN 481 AC-FT 1254000
WTR YR 1984 TOTAL 758692 MEAN 2073 MAX 9020 MIN 481 AC-FT 1505000

13011300 PACIFIC CREEK AT MORAN, WY

LOCATION.--Lat 43°51'04", long 110°30'59", in SW1/4 NW1/4 sec.23, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on left bank 40 ft upstream from bridge on U.S. Highway 287, at Moran, and at mile 0.5.

DRAINAGE AREA.--169 mi2. Mean altitude, 8,160 ft.

PERIOD OF RECORD.--July to November 1906 (gage heights only), July 1917 to September 1918 (no winter records), September 1944 to September 1975, July 1978 to current year. Published as "near Moran" prior to October 1968.

GAGE.--Water-stage recorder. Altitude of gage is 6,720 ft, from topographic map. July 31 to Nov. 11, 1906, nonrecording gage at site 0.4 mi downstream at different datum. July 20, 1917 to Sept. 30, 1918, nonrecording gage at site 0.1 mi downstream at different datum. Sept. 23, 1944 to Nov. 13, 1959, at site 100 ft upstream at same datum. Nov. 14, 1959 to Sept. 24, 1975, at site 35 ft downstream at same datum.

REMARKS.--Records fair. No diversion or regulation.

AVERAGE DISCHARGE.--37 years (1944-75, 1979-84), 269 ft3/s, 21.62 in./yr, 194,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,350 ft3/s May 29, 1983; gage height, 6.33 ft; minimum daily discharge, 19 ft3/s Dec. 31, 1979.

EXTREMES FOR CURRENT YEAR.-- Peak discharge above base of 1,300 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
May 16	0330	1570	5.42	May 24	1100	1750	5.57
May 20	0100	1420	5.32	May 31	2315	*2790	6.13
				June 17	0100	1710	5.43

Minimum daily discharge, 47 ft3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	100	94	78	54	74	67	133	2050	831	168	94
2	82	103	98	77	58	69	66	139	1620	763	196	86
3	112	111	100	76	56	65	66	149	1610	711	170	82
4	100	105	93	78	60	63	67	142	1390	660	152	77
5	94	102	88	80	59	59	70	146	1450	600	150	71
6	88	106	93	77	58	63	70	149	1350	537	145	77
7	92	98	97	74	56	67	71	146	1230	515	142	82
8	76	88	102	72	60	70	72	160	1140	486	138	75
9	70	94	108	68	59	73	71	178	992	438	134	83
10	98	98	113	66	60	76	70	208	905	387	130	72
11	120	102	110	68	62	74	68	210	894	374	124	69
12	133	106	107	65	64	73	60	250	896	346	122	68
13	115	102	114	63	66	75	58	390	1030	313	136	65
14	118	96	120	61	68	74	62	650	1140	282	118	62
15	106	92	108	62	65	71	71	1090	1450	262	109	60
16	95	87	100	59	62	69	90	1280	1450	247	144	70
17	84	96	97	51	60	68	124	910	1540	230	146	65
18	87	93	92	47	58	67	164	920	1480	214	119	62
19	73	90	98	49	57	68	210	1060	1350	212	107	57
20	80	86	95	48	56	68	210	1310	1410	222	108	55
21	88	85	92	56	57	67	174	1260	1360	227	104	70
22	80	84	86	61	60	69	171	1030	1320	233	99	93
23	93	91	80	64	63	71	174	1140	1190	291	95	101
24	116	96	76	67	66	72	171	1760	1140	228	102	108
25	105	99	80	68	68	74	160	1390	1160	210	92	92
26	106	95	84	63	65	70	149	1150	1150	255	108	84
27	103	94	78	62	64	68	142	1090	1090	220	100	84
28	101	100	75	60	70	66	130	1130	1060	190	92	83
29	98	94	70	58	72	64	125	1440	1010	212	86	77
30	95	89	75	56	---	66	133	1940	983	190	81	73
31	98	---	74	55	---	68	---	2420	---	168	87	---
TOTAL	3016	2882	2897	1989	1783	2141	3336	25250	37840	11054	3810	2303
MEAN	97.3	96.1	93.5	64.2	61.5	69.1	111	815	1261	357	123	76.8
MAX	133	111	120	80	72	76	210	2420	2050	831	196	108
MIN	70	84	70	47	54	59	58	133	894	168	81	55
CFSM	.58	.57	.55	.38	.36	.41	.66	4.82	7.46	2.11	.73	.45
IN.	.66	.63	.64	.44	.39	.47	.73	5.56	8.33	2.43	.84	.51
AC-FT	5980	5720	5750	3950	3540	4250	6620	50080	75060	21930	7560	4570

CAL YR 1983	TOTAL	119882	MEAN	328	MAX	3870	MIN	33	CFSM 1.94	IN. 26.39	AC-FT	237800
WTR YR 1984	TOTAL	98301	MEAN	269	MAX	2420	MIN	47	CFSM 1.59	IN. 21.64	AC-FT	195000

Note.--No gage-height record Oct. 1-11, Nov. 10-17, Feb. 19 to Mar. 12, May 8-14, July 26 to Aug. 13, Aug. 22 to Sept. 9.

13011900 BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WY

LOCATION.--Lat 43°50'14", long 110°26'21", in SE1/4 NE1/4 sec.29, T.45 N., R.113 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on right bank underneath bridge on U.S. Highway 26, 287, about 2 mi upstream from Lava Creek, 3.5 mi east of Moran, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--323 mi2.

PERIOD OF RECORD.--September 1965 to current year. July to November 1906, July 1917 to September 1918, and September 1944 to September 1960 at sites about 3 mi downstream.

REVISED RECORDS.--WDR Idaho 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,772.78 ft National Geodetic Vertical Datum of 1929 (Federal Highway Administration bench mark).

REMARKS.--Records good except those for periods of ice effect, which are fair. No regulation or significant diversions above station.

AVERAGE DISCHARGE.--19 years (1966-84), 366 ft3/s, 410,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,540 ft3/s June 9, 1981, gage height, 8.61 ft; minimum daily, 77 ft3/s Feb. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,100 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
June 1	0330	*4060	*6.45	June 28	0445	3750	6.27

Minimum daily discharge, 96 ft3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	346	250	176	130	160	244	142	235	3310	2020	624	347
2	323	248	182	132	158	230	138	245	2400	2510	860	329
3	340	253	188	130	170	220	138	253	2340	2510	749	317
4	313	245	176	132	168	170	136	251	1970	2380	685	311
5	305	255	168	136	168	150	143	264	1860	2470	677	307
6	300	258	172	134	166	160	143	259	1730	2290	670	320
7	290	250	176	132	180	192	144	253	1540	2160	619	329
8	280	240	178	128	182	198	142	266	1420	2330	573	312
9	277	248	180	124	180	202	145	302	1280	2080	545	345
10	305	255	188	122	198	210	140	341	1190	1710	515	312
11	310	268	168	128	210	200	138	363	1160	1560	490	298
12	292	258	160	126	220	194	121	390	1100	1490	477	324
13	285	250	168	122	230	198	118	569	1250	1540	511	295
14	297	238	174	118	238	196	131	972	1630	1460	480	286
15	310	232	162	114	220	182	148	1460	1980	1290	448	283
16	285	230	154	116	210	178	176	1850	2090	1230	504	307
17	295	240	148	108	200	172	218	1340	2380	1140	497	292
18	290	236	144	96	190	168	258	1280	2560	1080	435	276
19	260	226	140	98	178	160	287	1400	2320	1060	415	269
20	268	212	138	97	168	162	279	1730	2610	1040	425	267
21	270	202	128	116	170	158	252	1620	2730	1010	404	282
22	268	184	122	140	178	154	251	1320	2870	1200	388	312
23	272	192	114	144	188	150	262	1390	2580	1420	393	320
24	282	206	110	160	194	158	254	2000	2660	1250	389	318
25	253	220	122	178	200	160	246	1580	2930	1050	374	294
26	258	210	130	176	194	156	232	1350	3260	1250	397	291
27	250	200	124	178	192	150	221	1290	3320	1020	364	297
28	245	210	122	174	210	144	222	1280	3320	974	355	282
29	243	190	118	168	230	136	225	1590	3220	1020	340	272
30	238	162	128	160	---	136	227	2220	3410	942	328	276
31	248	---	122	152	---	140	---	3220	---	838	334	---
TOTAL	8788	6868	4690	4169	5550	5430	5674	32863	68420	48124	15455	9067
MEAN	283	229	151	134	191	175	189	1060	2281	1552	499	302
MAX	346	268	188	178	238	244	287	3220	3410	2820	860	347
MIN	238	162	110	96	158	136	118	235	1100	838	328	267
CFSM	.88	.71	.47	.41	.59	.54	.59	3.28	7.06	4.80	1.54	.93
IN.	1.01	.79	.54	.48	.64	.63	.65	3.78	7.88	5.54	1.78	1.04
AC-FT	17430	13620	9300	8270	11010	10770	11250	65180	135700	95450	30650	17980

CAL YR 1983	TOTAL	198165	MEAN	543	MAX	3180	MIN	110	CFSM 1.68	IN.	22.82	AC-FT	393100
WTR YR 1984	TOTAL	215098	MEAN	588	MAX	3410	MIN	96	CFSM 1.82	IN.	24.77	AC-FT	426600

13018300 CACHE CREEK NEAR JACKSON, WY
(Hydrologic bench-mark station)

LOCATION.--Lat 43°27'08", long 110°42'12", in SW1/4 SW1/4 SE1/4 sec.1, T.40 N., R.116 W., Teton County, Hydrologic Unit 17040103, Teton National Forest, on right bank 0.7 mi upstream from Salt Lick Draw, 2.4 mi southeast of Jackson, and 4.3 mi upstream from mouth.

DRAINAGE AREA.--10.6 mi2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1962 to current year.

REVISED RECORDS.--WDR WY-76-2: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,750 ft, from topographic map.

REMARKS.--Records good except those for winter months, which are fair. No diversion above station.

AVERAGE DISCHARGE.--22 years, 11.7 ft3/s, 9,930 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft3/s June 24, 1971, gage height, 3.90 ft; maximum gage height, 3.97 ft June 7, 1972; minimum daily discharge, 2.1 ft3/s Jan. 1, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 52 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
May 31	1800	*90	2.93	June 17	0030	60	2.72

Minimum daily discharge, 4.3 ft3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	7.4	6.2	6.4	5.7	6.4	7.6	10	71	48	19	10
2	9.3	7.6	6.3	6.4	5.8	6.6	7.6	10	60	45	19	10
3	9.4	7.4	6.4	6.4	6.0	6.6	7.5	10	61	44	18	10
4	9.2	7.3	6.5	6.2	6.2	6.5	7.5	10	57	43	18	9.9
5	8.9	7.9	7.5	6.4	6.2	6.3	7.8	10	55	42	17	10
6	8.7	7.4	9.7	6.4	6.2	6.5	8.0	9.9	54	41	17	10
7	8.6	8.1	6.9	6.4	6.4	6.8	8.0	9.9	50	40	16	9.8
8	8.5	7.6	6.7	6.4	6.5	7.0	8.5	10	48	39	16	9.7
9	8.9	7.4	6.6	6.4	6.5	7.0	8.2	11	45	38	15	9.6
10	9.0	7.1	6.8	6.4	6.6	7.2	8.2	12	44	36	15	9.3
11	9.0	7.1	7.0	6.4	6.6	7.2	8.2	12	42	35	14	10
12	8.7	7.0	7.2	6.2	6.6	7.4	8.1	15	39	34	14	9.7
13	8.5	7.0	7.2	6.1	6.8	7.4	8.3	19	40	33	14	9.1
14	9.4	6.5	7.2	5.9	6.4	7.6	8.3	28	45	32	13	8.7
15	8.9	6.5	7.1	5.6	5.7	7.6	9.0	39	52	31	13	8.9
16	8.6	7.0	7.0	5.7	5.5	7.6	10	42	56	30	14	8.5
17	8.3	6.6	6.9	4.9	5.7	7.6	12	34	58	29	13	8.5
18	8.3	6.5	6.5	4.3	5.4	7.6	14	32	56	28	13	8.2
19	8.1	6.5	6.4	4.4	5.2	7.5	14	34	53	27	13	8.2
20	8.0	6.4	6.2	4.4	5.1	7.6	13	38	55	26	13	8.2
21	7.6	6.3	6.0	4.6	5.4	7.6	12	35	54	26	12	9.1
22	7.6	6.0	5.5	4.8	6.0	7.6	12	36	52	26	12	8.3
23	7.8	5.8	5.6	4.7	6.2	7.5	12	38	50	25	12	8.7
24	7.8	5.7	5.2	5.3	6.2	7.6	12	47	49	24	12	8.2
25	7.4	6.6	4.8	5.8	6.2	7.6	12	44	50	24	12	7.9
26	7.4	6.7	7.0	5.7	6.2	7.6	11	41	50	23	12	7.8
27	7.4	6.2	6.8	5.7	6.1	7.4	11	41	49	23	11	7.5
28	7.2	6.4	6.4	5.7	6.2	7.2	11	42	48	21	11	7.4
29	7.3	6.6	6.8	5.8	6.4	7.6	11	46	49	22	11	7.3
30	7.2	3.3	6.8	5.8	---	7.5	10	59	49	20	10	7.2
31	7.5	---	6.6	5.9	---	7.6	---	76	---	20	11	---
TOTAL	257.7	204.1	206.2	177.5	176.6	224.8	297.8	905.8	1541	976	430	266.3
MEAN	8.31	6.80	6.65	5.73	6.09	7.25	9.93	29.2	51.4	31.5	13.9	8.88
MAX	9.4	8.1	9.7	6.4	6.8	7.6	14	76	71	48	19	10
MIN	7.2	3.3	4.8	4.3	5.1	6.3	7.5	9.9	39	20	10	7.2
CFSM	.78	.64	.63	.54	.57	.68	.94	2.75	4.85	2.97	1.31	.84
IN.	.90	.72	.72	.62	.62	.79	1.05	3.18	5.41	3.43	1.51	.93
AC-FT	511	405	409	352	350	446	591	1800	3060	1940	853	528

CAL YR 1983 TOTAL 5477.8 MEAN 15.0 MAX 95 MIN 4.0 CFSM 1.42 IN. 19.22 AC-FT 10870
WTR YR 1984 TOTAL 5663.8 MEAN 15.5 MAX 76 MIN 4.3 CFSM 1.46 IN. 19.88 AC-FT 11230

13018300 CACHE CREEK NEAR JACKSON, WY--Continued
(Hydrologic bench-mark station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV 16...	1317	7.1	349	8.5	-6.5	.0	11.2	98	K15	K12	190
JAN 27...	1550	6.6	317	8.4	2.0	1.0	11.3	100	37	24	170
MAR 14...	1600	7.6	312	8.6	4.0	2.0	11.0	102	180	62	180
MAY 14...	1517	28	334	8.7	15.0	5.0	10.2	101	83	53	190
JUL 16...	1823	29	293	8.6	12.0	10.0	9.2	104	K13	270	170
SEP 10...	1716	9.3	315	8.6	19.5	8.0	9.6	103	K16	330	180

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV 16...	50	15	2.6	3	.0	.70	184	5.2	.80	<.10	4.9
JAN 27...	44	14	2.8	3	.0	.80	178	5.8	.90	<.10	4.6
MAR 14...	46	15	2.8	3	.0	.80	182	5.5	.70	.10	4.8
MAY 14...	51	14	4.5	5	.1	1.0	180	12	.90	<.10	5.9
JUL 16...	45	13	1.7	2	.0	.70	157	4.3	.80	.10	4.3
SEP 10...	47	14	2.0	2	.0	1.1	165	5.4	.60	.10	4.8

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 16...	183	190	.25	3.5	<.10	.040	.40	.010	.010	<.010
JAN 27...	176	180	.24	3.1	<.10	.020	.30	<.010	<.010	.020
MAR 14...	169	190	.23	3.5	<.10	.040	.20	.010	.010	.040
MAY 14...	218	200	.30	16	.15	.070	.90	.150	.010	.020
JUL 16...	--	160	.22	13	<.10	.060	.20	.030	.030	<.010
SEP 10...	165	180	.22	4.1	<.10	.010	.20	.010	.010	.020

K Results based on counts outside ideal colony count range.

13018300 CACHE CREEK NEAR JACKSON, WY.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV										
16...	<1	<10	41	<.5	<1	<1	<3	<1	4	1
MAY										
14...	<1	20	55	1	<1	<1	<3	2	16	<1

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV										
16...	19	3	<.1	<10	<1	<1	<1	72	<6	8
MAY										
14...	11	10	.7	<10	<1	<1	<1	130	<6	8

DATE	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)
SEP							
10...	3.8	<.4	2.6	2.6	2.2	<.4	.06

DATE	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV		
16...	14	--
JAN		
27...	5	--
MAR		
14...	31	--
MAY		
14...	245	80
JUL		
16...	43	55
SEP		
10...	52	44

13018750 SNAKE RIVER BELOW FLAT CREEK, NEAR JACKSON, WY

LOCATION.--Lat 43°22'20", long 110°44'17", in NE1/4 SE1/4 sec.3, T.39 N., R.116 W., Teton County, Hydrologic Unit 17040103, on left bank 20 ft upstream from county road bridge, about 1 mi downstream from Flat Creek, 4.8 mi upstream from Hoback River, 7.0 mi south of Jackson, and at mile 938.9.

DRAINAGE AREA.--2,627 mi2.

PERIOD OF RECORD.--November 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft, from topographic map.

REMARKS.--Records good except those for winter periods, which are fair. Flow partly regulated by Jackson Lake. Some diversions from tributaries above station.

AVERAGE DISCHARGE.--8 years (1977-84), 3,765 ft3/s, 2,728,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,800 ft3/s June 29, 1982, gage height, 9.25 ft; minimum daily, 780 ft3/s Dec. 31, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,300 ft3/s June 1, gage height, 9.11 ft; minimum daily discharge 1,400 ft3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2680	2640	2120	1630	1710	1540	1510	2720	18400	12000	5650	4300
2	2720	2580	2160	1590	1750	1540	1520	3030	16500	11200	5460	4280
3	2720	2580	2190	1600	1800	1540	1540	3240	15500	11400	5290	4240
4	2690	2590	2290	1610	1720	1590	1540	3590	14700	12400	5120	4220
5	2570	2550	2190	1560	1670	1490	1590	4070	12600	13100	5000	5400
6	2480	2660	2150	1650	1730	1490	1670	4140	11600	12900	4880	6350
7	2390	2750	2140	1780	1700	1460	1740	4020	10800	12600	4900	6330
8	2340	2890	2170	1760	1600	1480	1750	4080	10300	13100	4960	6280
9	2290	3160	2180	1740	1590	1480	1740	4160	9680	13600	4800	6200
10	2250	3210	2190	1700	1620	1480	1750	4370	9320	13600	4710	6080
11	2360	3150	2220	1620	1600	1500	1730	4590	9320	13900	4610	5620
12	2550	3150	2260	1570	1590	1540	1700	4730	9040	13600	4630	6080
13	2660	3150	2210	1520	1590	1550	1660	5360	8870	13300	4570	5380
14	2710	3110	2190	1460	1590	1560	1650	6720	7700	13300	4600	5780
15	2970	3000	2190	1440	1520	1590	1650	8340	7320	13000	4540	6400
16	3000	2930	2160	1530	1570	1620	1780	9910	7920	12800	4560	6410
17	2930	3000	2140	1480	1560	1600	1970	9260	8510	12600	4520	6420
18	2890	2910	2080	1400	1540	1570	2200	8530	9120	12400	4480	6420
19	2880	2980	2040	1470	1500	1560	2540	8760	11300	10800	4410	6450
20	2820	2990	2000	1420	1520	1530	2620	9880	11800	8230	4340	6600
21	2810	2980	1960	1460	1600	1560	2410	10500	10800	7060	4320	6880
22	2590	2860	1850	1520	1550	1570	2320	9720	10900	7080	4290	7180
23	2530	2750	1680	1600	1520	1570	2340	9250	11100	7640	4260	7380
24	2540	2450	1540	1500	1550	1560	2480	10600	10900	7700	4280	7440
25	2710	2330	1600	1600	1540	1560	2530	11400	11200	6880	4300	7410
26	2740	2310	1630	1680	1520	1560	2540	9710	11700	6410	4340	8860
27	2740	2230	1670	1750	1490	1540	2520	9100	11900	6280	4280	8780
28	2700	2190	1680	1720	1500	1510	2650	9010	11400	6300	4180	8640
29	2680	2190	1680	1670	1510	1500	2750	9600	11200	6080	4120	8490
30	2660	2130	1690	1640	---	1500	2730	11700	11200	5980	4080	7630
31	2660	---	1700	1660	---	1510	---	15400	---	5670	4200	---
TOTAL	82260	82400	61930	49380	46250	47570	61120	229470	332600	322910	142680	193930
MEAN	2654	2747	1998	1593	1595	1535	2037	7402	11090	10420	4603	6464
MAX	3000	3210	2290	1780	1800	1620	2750	15400	18400	13900	5650	8860
MIN	2250	2130	1540	1400	1490	1460	1510	2720	7320	5670	4080	4220
AC-FT	163200	163400	122800	97950	91740	94380	121200	455200	659700	640500	283000	384700

CAL YR 1983	TOTAL	1550770	MEAN	4249	MAX	18200	MIN	1340	AC-FT	3076000
WTR YR 1984	TOTAL	1652500	MEAN	4515	MAX	18400	MIN	1400	AC-FT	3278000

Note.--No gage-height record Dec. 20 to Jan. 25, Aug. 14 to Sept. 30.

13019438 LITTLE GRANITE CREEK AT MOUTH NEAR BONDURANT, WY

LOCATION.--Lat 43°17'56", long 110°31'33", NW1/4 SW1/4 sec. 34, T.3 N., R.114 W., Teton County, Hydrologic Unit 17040103, Teton National Forest, 11.3 mi east of Hoback Junction on US 187/189 and 1.4 mi NE of US 187/189 on Granite Creek Road.

DRAINAGE AREA.--Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1981 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,390 ft, from topographic map.

REMARKS.--Records good except for winter months which are fair. No diversions above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 876 ft3/s May 29, 1983, gage height, 3.66 ft; maximum gage height, 4.1 ft Feb. 25, 1982 (backwater from ice). Minimum daily discharge, 2.5 ft3/s Feb. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 389 ft3/s May 15, gage height, 3.34 ft; minimum discharge, 5.1 ft3/s Mar. 5, gage height, 1.32 ft, result of freezeup.

(Stage-discharge relation affected by ice Nov. 13, 16, 19, Nov. 22 to Dec. 6, Dec. 15-31, Jan. 3, Jan. 15-25, Feb. 10, 16, 19-22, Feb. 26 to Mar. 1, Mar. 4-6, 19; shifting-control method used Apr. 18-29, May 12-18, June 17-23)

1.3	5.7	2.1	45
1.4	7.9	2.4	81
1.6	14	2.7	134
1.8	23	3.0	214
		3.3	320

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	15	12	10	8.3	12	40	258	95	28	17
2	16	16	15	12	9.9	8.4	13	40	208	89	27	17
3	18	16	15	12	9.8	8.4	14	40	191	87	26	17
4	17	16	15	12	9.3	8.3	15	40	184	83	28	17
5	16	17	14	12	9.1	8.1	15	40	171	80	27	16
6	16	17	15	12	9.3	8.4	16	40	148	73	25	19
7	16	19	17	12	9.5	8.5	17	38	149	63	24	15
8	15	18	19	12	9.3	8.7	17	42	136	63	23	14
9	16	18	19	11	9.1	8.7	17	48	124	59	22	14
10	19	18	17	12	8.7	8.8	17	51	118	53	21	13
11	21	18	15	13	8.8	8.9	17	60	117	55	20	14
12	18	17	14	12	8.7	8.9	20	90	115	52	20	15
13	18	17	15	12	8.7	9.0	19	127	115	48	20	13
14	23	16	15	11	8.9	8.9	22	175	132	46	20	12
15	21	17	14	10	8.8	8.9	24	228	166	44	19	12
16	19	17	15	9.4	8.6	8.9	34	250	189	41	19	12
17	19	18	14	8.4	8.9	9.2	45	205	207	39	19	12
18	18	17	13	7.7	8.7	9.1	59	198	185	37	19	12
19	18	16	14	8.3	8.2	9.0	68	207	181	37	19	12
20	17	18	14	8.0	7.8	9.6	62	224	199	36	19	11
21	16	18	13	8.5	7.9	10	59	218	194	37	19	15
22	16	16	12	9.0	8.1	9.7	62	189	177	42	18	13
23	17	15	11	8.8	8.2	10	65	181	152	40	18	15
24	18	16	10	9.2	8.2	10	60	268	143	37	18	15
25	16	17	9.8	9.5	8.2	11	57	220	144	34	18	14
26	16	16	10	10	8.0	10	52	197	141	33	18	14
27	16	16	11	9.9	7.8	12	50	190	125	33	18	14
28	16	16	11	10	7.9	13	46	195	113	32	18	13
29	15	14	10	9.9	8.1	11	46	214	107	31	18	13
30	15	13	10	9.9	---	12	42	261	103	30	17	13
31	16	---	11	9.9	---	12	---	307	---	28	17	---
TOTAL	534	499	422.8	323.4	252.5	295.7	1062	4623	4692	1557	642	423
MEAN	17.2	16.6	13.6	10.4	8.71	9.54	35.4	149	156	50.2	20.7	14.1
MAX	23	19	19	13	10	13	68	307	258	95	28	19
MIN	15	13	9.8	7.7	7.8	8.1	12	38	103	28	17	11
AC-FT	1060	990	839	641	501	587	2110	9170	9310	3090	1270	839

CAL YR 1983	TOTAL	15974.6	MEAN	43.8	MAX	656	MIN	4.6	AC-FT	31690
WTR YR 1984	TOTAL	15326.4	MEAN	41.9	MAX	307	MIN	7.7	AC-FT	30400

BEST COPY AVAILABLE

13019438 LITTLE GRANITE CREEK AT MOUTH NR BONDURANT, WYOMING--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1981 to current year.
PERIOD OF DAILY RECORD.--
  SUSPENDED SEDIMENT DISCHARGE: December 1981 to current year.
INSTRUMENTATION.--PS-69 automatic sediment sampler.
REMARKS.-- Missing sediment record October 1983 to April 1984. Equipment malfunctioned due to freezing.
EXTREMES FOR PERIOD OF DAILY RECORD.--
  SEDIMENT CONCENTRATIONS: Maximum daily, 3,150 mg/L May 16 1984; minimum daily, 2 mg/L Dec. 11, 1981.
  SEDIMENT LOADS: Maximum daily, 2,130 tons, May 16, 1984; minimum daily, 0.02 tons, Dec. 11, 1981.
EXTREMES FOR CURRENT YEAR.--
  SEDIMENT CONCENTRATIONS: Maximum daily, 3,150 mg/L, May 16; minimum daily, 11 mg/L, July 15-17.
  SEDIMENT LOADS: Maximum daily, 2,130 tons, May 16; minimum daily, 0.56 tons, Sept. 5.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT 12...	1236	18	418	8.4	6.5	2.5	11.2	103	20	26	230	69
NOV 14...	1317	19	384	8.5	.0	1.0	11.2	99	23	26	210	63
DEC 15...	1326	14	411	8.5	-1.0	.0	11.6	101	65	30	220	65
JAN 26...	1628	11	438	8.4	-1.0	.0	11.6	99	K2	K6	240	71
FEB 14...	1213	9.1	448	7.8	-8.0	.0	11.9	104	<1	310	240	70
MAR 14...	1218	9.0	454	8.4	4.5	1.0	11.4	102	K2	K5	240	70
APR 18...	1214	49	416	8.4	8.0	2.0	10.9	100	K16	25	210	63
MAY 17...	1614	195	367	8.7	16.0	6.0	9.9	102	K18	25	190	58
JUN 13...	0907	111	378	8.1	7.5	6.0	10.4	105	K14	K14	200	61
JUL 18...	1221	41	310	8.2	13.0	7.0	9.9	103	K16	56	180	53
AUG 15...	1040	18	367	8.5	9.0	8.5	9.5	102	35	120	210	63
SEP 11...	1038	12	411	8.7	8.5	6.0	10.1	103	42	76	220	64

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 12...	14	4.0	4	.1	.70	196	35	1.0	<.10	4.8	239
NOV 14...	13	3.7	4	.1	.80	192	28	.80	<.10	4.4	231
DEC 15...	14	3.9	4	.1	.80	198	31	.90	.10	3.8	--
JAN 26...	15	4.6	4	.1	.90	203	42	.90	.10	4.8	260
FEB 14...	16	4.9	4	.1	.80	197	52	1.0	<.10	5.0	272
MAR 14...	15	4.9	4	.1	.90	207	52	.80	.10	5.0	268
APR 18...	13	4.6	5	.1	1.2	208	29	1.0	<.10	5.0	246
MAY 17...	12	2.8	3	.0	1.1	192	13	.80	<.10	4.7	--
JUN 13...	12	2.8	3	.0	.70	155	14	.50	<.10	4.4	220
JUL 18...	12	2.6	3	.0	.80	152	18	.60	.10	4.2	166
AUG 15...	14	3.3	3	.1	.90	190	28	.80	<.10	4.5	--
SEP 11...	15	3.6	3	.1	1.0	188	37	.60	<.10	4.5	--

K Results based on counts outside ideal colony count range.

13019438 LITTLE GRANITE CREEK AT MOUTH NEAR BONURANT, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT 12...	250	.33	12	<.10	<.10	.040	.050	.80	.70	.010	.010
NOV 14...	230	.31	12	<.10	<.10	.030	.030	.70	.60	.040	<.010
DEC 15...	240	.32	15	<.10	<.10	<.010	.020	.20	.20	.020	<.010
JAN 26...	260	.35	7.7	<.10	<.10	.050	.030	.20	<.20	.010	<.010
FEB 14...	270	.37	6.7	<.10	<.10	.200	.120	.20	<.20	.010	.050
MAR 14...	270	.36	6.5	<.10	<.10	.030	.030	.20	<.20	<.010	<.010
APR 18...	240	.33	33	.20	.25	.080	.110	.50	.30	.280	.020
MAY 17...	210	.28	111	.20	.21	.030	.090	.50	.40	.150	.010
JUN 13...	190	.30	66	.10	.10	.030	.030	.30	.20	.040	.010
JUL 18...	180	.23	18	<.10	<.10	.060	.020	.20	.20	.010	<.010
AUG 15...	230	.31	11	<.10	<.10	.040	.010	.80	.20	.010	<.010
SEP 11...	240	.32	7.7	<.10	<.10	.020	.020	.20	<.20	.010	<.010

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)
OCT 12...	1	1	200	130	<.5	<1	<1	<10	<1	<3
JAN 26...	1	<1	<100	130	<.5	<1	<1	<10	<1	<3
APR 18...	<1	<1	200	140	.5	1	<1	<10	1	<3
JUL 18...	<1	<1	200	100	1	<1	<1	<10	<1	<3

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)
OCT 12...	6	<10	290	10	10	<10	11	20	4	.1
JAN 26...	6	<10	90	<3	1	<10	14	20	2	.1
APR 18...	8	<10	3500	15	10	<10	10	140	6	1.0
JUL 18...	10	<10	80	8	2	<10	7	<10	4	.4

DATE	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 12...	.1	<10	<1	<1	<1	<1	290	<6	80	31
JAN 26...	<.1	<10	<1	<1	<1	<1	310	<6	20	12
APR 18...	.7	<10	<1	<1	<1	<1	310	<6	60	23
JUL 18...	.4	<10	<1	<1	<1	<1	180	<6	70	22

13019438 LITTLE GRANITE CREEK AT MOUTH NEAR BONDURANT, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	CYANIDE TOTAL (MG/L AS CN)	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
12...	--	2.1	.30	<.01	37	--
NOV						
14...	1.4	--	--	--	56	--
DEC						
15...	1.0	--	--	--	32	--
JAN						
26...	--	1.8	.30	<.01	21	--
FEB						
14...	.90	--	--	--	17	--
MAR						
14...	.60	--	--	--	102	86
APR						
18...	--	3.2	.90	<.01	290	93
MAY						
10...	--	--	--	--	136	84
17...	6.4	--	--	--	422	71
22...	--	--	--	--	220	75
30...	--	--	--	--	1040	72
JUN						
07...	--	--	--	--	106	--
13...	1.9	--	--	--	73	--
21...	--	--	--	--	81	--
28...	--	--	--	--	45	--
JUL						
06...	--	--	--	--	24	--
11...	--	--	--	--	9	--
18...	--	3.1	.30	<.01	8	56
AUG						
15...	1.1	--	--	--	29	79
SEP						
11...	.70	--	--	--	16	--

13019438 LITTLE GRANITE CREEK AT MOUTH NEAR BONDURANT, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA
WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

PERIPHYTON

TAXA		PERCENT WITHIN DIVISION			
		DEC 15	MAR 14	JUN 13	SEPT 11
BACILLARIOPHYTA (Diatoms)	*	35	71	72	10
Achnanthes affinis		--	--	11	12
Achnanthes lanceolata f. dubia		--	--	--	<1
Achnanthes lanceolata var. dubia		--	5	<1	--
Achnanthes linearis		<1	--	1	1
Achnanthes linearis f. curta		--	--	1	1
Achnanthes minutissima		3	5	2	1
Achnanthes sp.		--	--	1	--
Amphipleura pellucida		1	--	--	--
Amphora perpusilla		1	--	9	3
Caloneis sp.		--	--	<1	--
Cocconeis pediculus		<1	--	--	11
Cocconeis placentula		<1	5	<1	<1
Cymbella affinis		<1	--	1	2
Cymbella lunata		--	--	--	<1
Cymbella microcephala var. crassa		--	--	--	<1
Cymbella minuta		--	11	--	<1
Cymbella minuta f. latens		--	--	--	<1
Cymbella minuta var. silesiaca		3	--	--	4
Cymbella sinuata		--	--	--	<1
Epithemia adnata		--	--	<1	<1
Epithemia sorex		2	--	<1	<1
Gomphoneis herculeana		<1	--	--	--
Gomphonema intricatum		--	--	--	<1
Gomphonema olivaceum		5	--	1	6
Gomphonema subclavatum		P	5	--	--
Hannaea arcus		<1	--	<1	--
Meridion circulare		--	--	<1	--
Navicula bacillum		--	--	<1	--
Navicula cryptocephala		--	5	<1	--
Navicula cryptocephala var. veneta		10	--	2	2
Navicula heufleri		1	--	2	2
Navicula lanceolata		--	--	<1	--
Navicula menisculus var. upsaliensis		--	--	1	--
Navicula minima		--	--	--	<1
Navicula minuscula		<1	--	1	<1
Navicula notha		6	--	6	4
Navicula pelliculosa		<1	--	--	--
Navicula rhynchocephala		--	--	--	<1
Navicula sp.		<1	--	<1	--
Navicula tripunctata var. schizonemoides		<1	--	--	--
Navicula viridula var. avenacea		14	41	14	34
Navicula viridula var. rostellata		--	--	--	<1
Nitzschia amphibia		P	--	--	--
Nitzschia dissipata		37	16	37	8
Nitzschia fonticola		--	--	<1	--
Nitzschia frustulum		P	--	2	--
Nitzschia hungarica		--	--	--	<1
Nitzschia latens		5	--	1	--
Nitzschia linearis		1	--	--	1
Nitzschia microcephala		<1	--	--	--
Nitzschia palea		4	--	4	--
Nitzschia paleacea		1	--	1	--
Nitzschia thermalis		<1	--	--	--
Nitzschia sp.		P	--	--	--
Nitzschia sp. 1		--	--	--	1
Nitzschia sp. 2		--	--	--	<1
Rhopalodia gibba		<1	--	--	--
Surirella angustata		--	--	--	<1
Surirella ovata		5	5	--	1
Synedra ulna		2	--	--	<1
Synedra ulna var. oxyrhynchus		--	--	<1	<1
CHLOROPHYTA (Green algae)	*	<1	--	--	85
Cladophora glomerata		--	--	--	100
Closterium sp.		1	--	--	--
Ulothrix zonata		99	--	--	--

13019438 LITTLE GRANITE CREEK AT MOUTH NEAR BONDURANT, WY--Continued

WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

PERIPHYTON

TAXA		PERCENT WITHIN DIVISION			
		DEC 13	MAR 14	JUN 13	SEPT 11
CYANOPHYTA (Blue-green algae)	*	5	29	28	5
Anabaena sp.		1	100	--	<1
Lyngbya sp.		3	--	36	--
Lyngbya nana		90	--	64	60
Nostoc sp.		6	--	--	--
Oscillatoria sp.		<1	--	P	<1
Phormidium sp.		--	--	--	40
RHODOPHYTA (red algae)	*	<1	--	--	--
Lemanea fucina (Chantransia phase)		100	--	--	--
CHRYSOPHYTA (Golden-brown algae)	*	60	--	--	--
Hydrurus foetidus		100	--	--	--
Number of taxa		43	10	35	41

P = taxa observed after counts completed
* = Percent of total algae

13019438 LITTLE GRANITE CREEK AT MOUTH NEAR BONDURANT, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA

WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

BENTHIC INVERTEBRATES

(FUNCTIONAL GROUP: CG, COLLECTORS-GATHERERS, CF, COLLECTORS-FILTERS
S,SCRAPERS, SH, SHREDDERS, P, PREDATORS)

TAXA	FUNCTIONAL GROUP	NOV 14	MAR 14	MAY 17	JUN 13	JUL 13	SEP 6
Insecta							
Coleoptera (Beetles)							
Heterlimnius corpulentus	CG	2	--	--	--	3	2
Optioservus Quadrimaculatus	CG	--	--	1	--	--	--
Oreodytes sp.	P	1	--	--	--	--	--
Diptera (True-flies)							
Antocha sp.	CG	14	3	2	--	2	4
Chelifera sp.	P	--	--	--	--	2	3
Chironomidae pupa	--	--	--	--	--	11	4
Cricotopus sp.	SH	3	195	11	1	5	4
Diamesa sp.		--	1	1	--	155	1
Dicranota sp.	P	3	--	--	--	--	1
Hemerodromia sp.	P	--	--	--	--	--	1
Hesperoconopa sp.	CG	2	--	--	--	2	1
Hexatoma sp.	P	1	--	--	--	--	--
Micropsectra sp.	CG	--	--	--	--	--	2
Orthocladius sp.	CG	1	91	3	--	27	17
Pagastia sp.	CG	--	--	--	--	20	12
Palpomyia complex	P	--	--	--	--	2	--
Paracladopelma sp.	P	--	--	--	--	2	--
Parametriocnemus sp.	CG	2	12	6	--	--	33
Pericoma sp.	CG	2	2	--	--	--	--
Prosimulium sp.	CF	--	--	--	--	1	--
Thienemanniella sp.	CG	--	--	--	--	26	--
Thienemanniella sp. group	P	--	--	--	--	5	--
Ephemeroptera (Mayflies)							
Ameletus cooki	CG	1	--	--	--	--	--
Ameletus velox	CG	--	--	--	2	--	3
Baetis bicaudatus	CG	19	3	8	4	11	37
Baetis tricaudatus	CG	39	11	8	3	49	45
Caudatella hystrix		--	--	--	--	--	1
Cinygmula sp.	S	7	8	2	--	--	2
Drunella coloradensis	CG	--	--	--	--	5	--
Drunella doddsi	CG	11	13	5	2	4	9
Drunella grandis	CG	3	2	--	--	--	1
Drunella grandis grandis	CG	--	--	--	1	1	--
Epeorus albertae	S	--	--	--	--	--	1
Epeorus deceptivus	S	1	--	--	--	--	--
Epeorus longimanus	S	--	9	6	--	34	4
Epeorus sp.	S	--	--	--	3	--	--
Ephemerella inermis	CG	--	--	--	--	1	--
Ephemerella infrequens	CG	23	2	1	--	3	6
Rhithrogena hageni	S	40	24	3	2	4	49
Rhithrogena robusta	S	3	5	2	--	--	--
Serratella micheneri	CG	--	--	--	--	23	--
Hydracarina (Water-mites)							
Lebertia sp.	P	--	--	--	--	--	1
Mideopsis sp.	P	--	--	--	--	--	1
Protozia sp.	P	--	--	--	--	1	--
Plecoptera (Stoneflies)							
Capniidae	SH	37	3	--	--	--	13
Chloroperlidae	P	27	7	1	6	19	49
Hesperoperla pacifica	P	5	1	--	--	--	3
Isoperla fulva	P	14	9	--	--	--	1
Isoperla sp.	P	--	--	1	--	--	--
Kogotus sp.	P	--	--	--	--	5	--
Paraleuctra sp.	SH	--	4	--	--	--	--
Perlodidae	P	--	--	--	--	1	10
Prostoia besametsa	SH	142	138	--	--	--	2
Skwala sp.	P	4	--	--	--	--	--
Taenionema nigripenne	SH	--	19	--	--	--	--
Taenionema sp.	SH	24	--	--	--	--	19
Zapada cinctipes	SH	71	3	--	--	--	27
Zapada oregonensis group	SH	1	--	--	--	--	3

13019438 LITTLE GRANITE CREEK AT MOUTH NEAR BONDURANT, WY--Continued

WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

TAXA	FUNCTIONAL GROUP	NOV 14	MAR 14	MAY 17	JUN 13	JUL 13	SEP 6
Trichoptera (Caddisflies)							
Arctopsyche grandis	CF	15	17	1	--	5	53
Brachycentrus americanus	CF	3	--	--	--	5	24
Dicosmoecus atripes	S	2	1	--	--	3	--
Glossosoma sp.	S	2	1	1	--	--	--
Micrasema sp.	SH	2	--	--	--	--	--
Oligophlebodes sp.	S	--	--	1	--	--	--
Rhyacophila acropedes	P	17	20	3	2	10	3
Rhyacophila angelita	P	2	--	--	1	9	3
Rhyacophila coloradensis	P	--	--	1	--	--	--
Oligochaeta (Worms)							
Limnodrilus sp.	CG	2	6	--	--	1	--
Turbellaria (Flatworms)	P						
Polycelis coronata	P	--	--	3	--	1	--
Number of individuals		548	610	72	27	459	455
Number of taxa		37	28	23	11	34	38
Diversity index		3.91	3.20	4.03	3.23	3.65	4.21

13019438 LITTLE GRANITE CREEK AT MOUTH NEAR BONDURANT, WY--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1				40	82	8.9	258	505	352
2				40	83	9.0	208	206	116
3				40	81	8.7	191	126	65
4				40	66	7.1	184	132	66
5				40	66	7.1	171	102	47
6				40	50	5.4	148	75	30
7				38	45	4.6	149	85	34
8				42	52	5.9	136	118	43
9				48	105	14	124	73	24
10				51	125	17	118	75	24
11				60	122	20	117	212	67
12				90	283	69	115	99	31
13				127	664	228	115	70	22
14				175	1200	567	132	105	37
15				228	460	283	166	148	66
16				250	3150	2130	189	148	76
17				205	730	415	207	155	87
18				198	442	236	185	154	77
19				207	500	279	181	151	74
20				224	614	371	199	116	62
21				218	580	341	194	112	59
22				189	268	137	177	94	45
23				181	239	117	152	74	30
24				268	225	163	143	76	29
25				220	307	182	144	93	36
26				197	185	98	141	85	32
27				190	140	72	125	63	21
28				195	160	84	113	50	15
29				214	279	161	107	53	15
30				261	445	316	103	49	14
31				307	660	547	---	---	---
TOTAL				4623	---	6901.7	4692	---	1696
		JULY			AUGUST			SEPTEMBER	
1	95	42	11	28	60	4.5	17	20	.92
2	89	43	10	27	52	3.8	17	20	.92
3	87	38	8.9	26	48	3.4	17	16	.73
4	83	30	6.7	28	65	4.9	17	15	.69
5	80	26	5.6	27	318	23	16	13	.56
6	73	19	3.7	25	102	6.9	19	19	.97
7	68	17	3.1	24	58	3.8	15	75	3.0
8	63	14	2.4	23	46	2.9	14	24	.91
9	59	15	2.4	22	44	2.6	14	23	.87
10	53	14	2.0	21	31	1.8	13	28	.98
11	50	37	5.0	20	30	1.6	14	126	4.8
12	52	12	1.7	20	24	1.3	15	49	2.0
13	48	14	1.8	20	30	1.6	13	36	1.3
14	46	22	2.7	20	26	1.4	12	35	1.1
15	44	11	1.3	19	23	1.2	12	34	1.1
16	41	11	1.2	19	39	2.0	12	34	1.1
17	39	11	1.2	19	45	2.3	12	29	.96
18	37	30	3.0	19	46	2.3	12	25	.81
19	37	40	4.0	19	27	1.4	12	28	.91
20	36	37	3.6	19	40	2.1	11	43	1.3
21	37	35	3.5	19	32	1.6	15	44	1.8
22	42	54	6.1	18	34	1.7	13	37	1.3
23	40	94	10	18	29	1.4	15	43	1.7
24	37	59	5.9	18	43	2.1	15	37	1.5
25	34	45	4.1	18	39	1.9	14	63	2.4
26	33	43	3.8	18	35	1.7	14	39	1.5
27	33	40	3.6	18	28	1.4	14	20	.76
28	32	263	23	18	26	1.3	13	24	.84
29	31	351	29	18	18	.87	13	29	1.0
30	30	138	11	17	21	.96	13	24	.84
31	28	73	5.5	17	22	1.0	---	---	---
TOTAL	1557	---	186.8	642	---	90.73	423	---	39.55
YEAR	14264.4		8914.78						

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°11'47", long 110°53'18", Lincoln County, Hydrologic Unit 17040103, on right bank 0.3 mi downstream from Wolf Creek, 6.4 mi upstream from Greys River, 7.4 mi east of Alpine, 16.1 mi upstream from Palisades Dam, and at mile 917.5.
DRAINAGE AREA.--3,465 mi2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1937 to March 1939 (published as "above Greys River, near Alpine"), July 1953 to current year.
GAGE.--Water-stage recorder. Datum of gage is 5,683.90 ft National Geodetic Vertical Datum of 1929. Mar. 16, 1937, to Mar. 31, 1939, at site 6.0 mi downstream at different datum.
REMARKS.--Records excellent except those for winter period, which are good. Flow partly regulated by Jackson Lake. Some diversions from tributaries above station.
AVERAGE DISCHARGE.--32 years (1938, 1954-84), 4,638 ft3/s, 3,336,000 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,600 ft3/s June 19, 1974, gage height, 11.96 ft; minimum, 740 ft3/s Nov. 16, 1955, gage height, 2.19 ft.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,600 ft3/s June 1, gage height, 10.56 ft, maximum gage height, 11.99 ft, Dec. 25 (due to backwater from ice); minimum discharge, 1,610 ft3/s Mar. 5, gage height, 2.97 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 23-27, Jan. 11-26)

3.0	1650	7.0	10200
4.0	3190	9.0	16600
5.0	5150	10.0	20400
6.0	7570	11.0	24400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3680	3400	2730	2010	2150	1900	1960	3950	22300	15000	7440	5300
2	3670	3320	2750	1980	2170	1920	1960	4260	20100	14100	7210	5470
3	3700	3360	2790	1980	2240	1910	1960	4610	19200	13600	6980	5410
4	3530	3320	2900	1990	2250	1860	1990	4920	18300	14500	6730	5340
5	3340	3250	2780	1960	2120	1810	2060	5570	16300	15100	6630	6990
6	3210	3450	2760	2060	2130	1870	2180	5590	14700	15100	6440	7770
7	3120	3510	2760	2210	2190	1860	2270	5370	13900	14600	6500	7770
8	3060	3770	2750	2190	2080	1870	2290	5570	13200	14900	6490	7710
9	3050	3870	2740	2170	2000	1900	2310	6080	12400	15400	6270	7650
10	3280	4040	2790	2100	2080	1910	2300	6870	11700	15300	6130	7530
11	3420	4000	2820	2030	2070	1930	2260	7090	11900	15300	6000	6900
12	3500	4030	2830	1970	2030	1960	2180	7880	11600	15100	5940	7550
13	3530	4000	2760	1910	2010	1920	2150	9090	11300	14700	5860	6270
14	3670	3950	2740	1870	1980	1960	2140	11000	10800	14600	5890	6450
15	3920	3780	2750	1810	1860	1980	2220	13300	10400	14300	5750	7720
16	3930	3690	2720	1900	1910	2010	2520	15200	11400	13900	5820	7770
17	3800	3730	2670	1810	1920	1960	3030	13200	13200	13800	5900	7870
18	3760	3790	2560	1720	1880	1920	3680	11600	12800	13500	5710	7780
19	3720	3740	2580	1800	1800	1880	4390	12200	14100	12100	5600	7780
20	3600	3750	2560	1780	1840	1920	4310	13900	15200	9830	5590	7820
21	3580	3740	2510	1820	1950	1970	3980	14800	14000	8360	5580	8120
22	3380	3590	2460	1890	1980	1940	3940	13300	13800	8880	5500	8740
23	3250	3380	2220	1980	1860	1920	4260	12700	13900	9570	5500	8990
24	3360	3240	2000	1900	1910	1950	4240	15100	13800	9490	5560	9190
25	3440	2960	2030	1990	1900	1930	4240	15500	14100	8610	5510	9080
26	3460	2900	2100	2100	1860	1960	3970	13300	14700	8030	5600	8890
27	3450	2800	2080	2230	1820	1900	3790	12400	15000	7920	5520	8760
28	3410	2770	2090	2150	1860	1870	3820	12200	14400	7940	5450	8620
29	3400	2830	2090	2110	1860	1910	3960	12700	14100	7870	5320	8450
30	3370	2750	2090	2040	---	1910	3900	15600	14200	7790	5240	7960
31	3390	---	2100	2070	---	1950	---	19500	---	7340	5400	---
TOTAL	107980	104690	78550	61530	57710	59460	90260	324350	426800	376730	185060	227850
MEAN	3483	3490	2534	1985	1990	1918	3009	10460	14230	12150	5970	7595
MAX	3930	4040	2900	2230	2250	2010	4390	19500	22300	15400	7440	9190
MIN	3050	2750	2000	1720	1800	1810	1960	3950	10400	7340	5240	5340
AC-FT	214200	207700	155800	122000	114500	117900	179000	643300	846600	747200	367100	451900

CAL YR 1983	TOTAL	1971440	MEAN	5401	MAX	23100	MIN	1760	AC-FT	3910000
WTR YR 1984	TOTAL	2100970	MEAN	5740	MAX	22300	MIN	1720	AC-FT	4167000

13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°08'35", long 110°58'36", in SW1/4 SE1/4 sec.34, T.37 N., R.118 W. (unsurveyed), Lincoln County, Hydrologic Unit 17040103, on right bank at Bridge Campground, 3.6 mi southeast of Alpine, 3.0 mi upstream from maximum flowline of Palisades Reservoir.

DRAINAGE AREA.--443 mi2. Mean altitude, 8,080 ft.

PERIOD OF RECORD.--July to September 1917, June to September 1918, March 1937 to March 1939, October 1953 to current year. Published as "Greys River near Alpine, Idaho," 1917-18, and as "Greys River near Alpine, Wyo.," 1937-39.

REVISED RECORDS.--WDR Idaho 1967: 1966.

GAGE.--Water-stage recorder. Altitude of gage is 5,720 ft, from topographic map. July 6 to Sept. 30, 1917, and June 4 to Sept. 30, 1918, nonrecording gage, and Mar. 17, 1937, to Mar. 31, 1939, water-stage recorder, at site 1.8 mi downstream, and October 1953 to Sept. 22, 1965, water-stage recorder at site 1 mi downstream at different datums.

REMARKS.--Records good except for winter period, which are fair. Less than 500 acres irrigated by diversions from Greys River and tributaries above station.

AVERAGE DISCHARGE.--32 years (1938, 1954-84), 664 ft3/s, 20.13 in./yr, 481,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,230 ft3/s June 19, 1971, gage height, 6.33 ft; maximum gage height observed, 19.1 ft former site and datum about Dec. 18, 1965 (ice jam); minimum daily discharge, 92 ft3/s Jan. 2, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
May 16	0100	4020	5.47	May 31	1815	*4350	5.66
May 24	1145	3840	5.21	June 17	0345	2910	4.57

Maximum gage height, 10.93 ft Jan. 20, backwater from ice; minimum daily discharge, 190 ft3/s Jan. 19.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1 to Nov. 22; stage-discharge relation affected by ice Dec. 19-24, Dec. 27 to Feb. 29, Mar. 4-6)

Oct. 1 to May 15				May 16 to Sept. 30			
1.0	132	4.0	2120	1.0	122	4.0	2200
2.0	530	5.0	3320	2.0	520	5.0	3520
3.0	1200	6.0	4840	3.0	1200	6.0	5140

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	464	425	402	340	310	303	316	688	3670	2150	546	531
2	474	428	425	350	290	303	315	695	3220	1940	532	531
3	504	448	425	355	310	303	310	721	3070	1850	793	520
4	483	449	425	350	300	265	322	725	2770	1850	762	515
5	463	472	405	355	310	245	361	782	2770	1790	750	509
6	453	511	392	365	300	275	400	736	2530	1720	730	509
7	441	510	396	355	320	299	420	707	2560	1670	711	531
8	436	531	396	360	330	271	425	758	2440	1690	697	520
9	430	472	396	325	290	267	425	1020	2200	1620	655	504
10	511	455	396	320	310	267	425	1310	2050	1520	674	485
11	507	477	396	340	300	287	430	1430	2030	1430	667	504
12	486	495	402	325	310	287	408	1750	1850	1370	662	555
13	470	494	401	310	320	287	405	2270	1830	1320	659	520
14	470	490	401	305	310	287	396	2770	2100	1260	654	504
15	475	468	401	295	300	279	471	3390	2390	1220	641	498
16	471	438	398	255	310	282	635	3600	2550	1170	643	483
17	463	428	361	235	305	278	867	2690	2750	1130	655	482
18	455	447	330	200	295	279	1120	2470	2660	1100	624	477
19	448	467	320	190	265	267	1200	2690	2490	1090	613	471
20	435	465	315	200	245	274	1080	3160	2560	1080	630	477
21	435	460	310	210	260	275	927	3270	2600	1060	608	550
22	435	444	305	220	255	275	919	2660	2510	1100	591	547
23	436	432	305	250	270	273	996	2620	2400	1070	591	595
24	466	434	300	250	280	287	966	3440	2320	1010	602	613
25	447	436	311	320	290	291	911	3010	2350	964	590	553
26	435	440	321	290	280	293	831	2620	2380	954	591	542
27	431	414	330	300	255	274	764	2540	2390	911	563	531
28	423	429	340	320	270	270	731	2490	2350	911	563	525
29	419	429	345	310	285	289	729	2720	2270	989	547	515
30	415	352	360	295	---	287	695	3200	2320	971	536	493
31	416	---	350	305	---	305	---	3910	---	925	536	---
TOTAL	14095	13640	11360	9240	8445	8724	19200	66842	74580	40565	20233	15626
MEAN	455	455	366	298	291	281	640	2156	2486	1309	653	521
MAX	511	531	425	365	320	305	1200	3910	3870	2150	646	513
MIN	415	352	300	190	245	245	310	688	1830	825	536	471
CFSM	1.02	1.02	.82	.67	.65	.63	1.43	4.81	5.55	2.92	1.46	1.16
IN.	1.17	1.13	.94	.77	.70	.72	1.59	5.55	6.19	3.37	1.68	1.30
AC-FT	27960	27050	22530	18330	16750	17300	38080	132600	147900	80460	40130	30990

CAL YR 1983 TOTAL 314219 MEAN 861 MAX 4660 MIN 235 CFSM 1.92 IN. 26.09 AC-FT 623300
WTR YR 1984 TOTAL 302550 MEAN 827 MAX 3910 MIN 190 CFSM 1.85 IN. 25.12 AC-FT 600100

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY

LOCATION.--Lat 43°04'47", long 111°02'12", in SW1/4 NE1/4 sec.28, T.36 N., R.119 W., Lincoln County, Hydrologic Unit 17040105, on right bank 3.4 mi northwest of Etna and 8.0 mi upstream from maximum flowline of Palisades Reservoir.

DRAINAGE AREA.--829 mi2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,675.78 ft National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Records good. Diversions above station for power developments, industry, municipal supply, and irrigation of about 60,500 acres of which about 1,000 acres are below station (1966 determination). For details on adjudication of diversions, see Remarks for this station in WSP 1347.

AVERAGE DISCHARGE.--31 years, 804 ft3/s, 582,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,910 ft3/s May 30, 1983, gage height, 5.96 ft; minimum, 160 ft3/s Jan. 7, 8, 1971, gage height, 1.53 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,750 ft3/s May 16, gage height, 5.87 ft; minimum, 383 ft3/s Jan. 21, 22, gage height, 1.96 ft.

Ratino table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Jan. 17-18; shifting-control method used Dec. 8-29)

1.5	140	4.0	2160
2.0	435	5.0	3310
3.0	1230	6.0	4980

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBRR 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	933	862	731	662	570	577	633	1420	4320	2210	1210	930
2	959	854	739	655	570	572	645	1490	4140	2100	1210	916
3	1000	846	739	655	577	570	659	1630	4000	1930	1180	903
4	937	821	755	655	570	569	677	1690	3820	1880	1160	888
5	907	829	731	655	570	561	699	1790	3790	1850	1120	880
6	891	913	731	662	563	563	737	1710	3680	1820	1090	891
7	872	905	739	662	570	563	796	1610	3650	1720	1050	906
8	870	981	731	662	570	563	838	1630	3550	1730	1020	902
9	963	871	747	662	563	563	868	1850	3350	1720	955	895
10	906	854	771	655	570	563	879	2100	3080	1670	936	875
11	900	862	755	655	570	577	879	2180	2980	1570	926	883
12	890	879	780	662	577	586	884	2300	2830	1490	931	943
13	880	871	763	655	577	591	867	2650	2650	1480	928	929
14	885	854	731	647	577	596	864	3270	2520	1430	899	900
15	890	837	747	640	577	605	890	4130	2570	1380	880	888
16	895	829	747	626	577	612	1010	4630	2680	1330	894	871
17	900	871	747	530	577	612	1300	4400	2790	1300	957	863
18	895	913	731	440	577	616	1700	4000	2810	1220	931	869
19	888	854	723	402	573	612	2090	3810	2830	1190	912	859
20	888	829	723	383	564	612	2040	4020	2730	1170	935	856
21	879	829	715	370	562	612	1810	4220	2660	1230	903	961
22	854	804	685	370	577	612	1800	4030	2630	1340	883	950
23	854	780	655	376	577	612	1820	3910	2500	1550	884	985
24	905	804	626	383	584	612	1890	4250	2380	1400	893	1180
25	879	821	626	396	584	612	1810	4350	2330	1250	891	1060
26	862	780	640	455	577	612	1680	4100	2310	1250	936	991
27	837	739	647	521	573	619	1550	3920	2290	1190	933	956
28	806	780	640	563	569	616	1480	3730	2240	1190	930	937
29	788	788	647	570	572	619	1480	3690	2190	1240	905	919
30	796	693	662	570	---	619	1440	3760	2170	1340	906	906
31	837	---	662	570	---	625	---	4110	---	1240	925	---
TOTAL	27444	25153	22066	17369	16614	18453	36715	96380	88470	46410	30113	27692
MEAN	885	838	712	560	573	595	1224	3109	2949	1497	971	923
MAX	1000	981	780	662	584	625	2090	4630	4320	2210	1210	1180
MIN	788	693	626	370	562	561	633	1420	2170	1170	880	856
AC-FT	54440	49890	43770	34450	32950	36600	72820	191200	175500	92050	59730	54930

CAL YR 1983	TOTAL	446057	MEAN	1222	MAX	4900	MIN	465	AC-FT	884800
WTR YR 1984	TOTAL	452879	MEAN	1237	MAX	4630	MIN	370	AC-FT	898300

13032500 SNAKE RIVER NEAR IRWIN, ID

LOCATION.--Lat 43°21'03", long 111°13'06", in NE1/4 NE1/4 sec.7, T.1 S., R.45 E., Bonneville County, Hydrologic Unit 17040104, on right bank at U.S. Bureau of Reclamation headquarters, 1.5 mi downstream from Palisades Dam 2 mi upstream from Palisades Creek, 5 mi southeast of Irwin, and at mile 900.2.

DRAINAGE AREA.--5,225 mi2.

PERIOD OF RECORD.--March to October 1935, April to October 1936, May 1949 to current year. Records for station "at Calamity Point, near Irwin" April to August 1934, April to October 1935, April to October 1936, March 1939 to September 1941 are equivalent to those for this station.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,353.00 ft National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Mar. 30, 1935, to Oct. 31, 1936, water-stage recorder at site 3.5 mi downstream at different datum. May 1, 1949, to Mar. 22, 1950, nonrecording gage at site 1,100 ft downstream at datum 1.9 ft higher.

REMARKS.--Records good. Flow regulated by Jackson Lake and Palisades Reservoir. Diversions from tributaries above station for irrigation in Wyoming and Idaho of about 95,300 acres 1966 determination.

AVERAGE DISCHARGE.--35 years (1950-84), 6,691 ft3/s, 4,848,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,800 ft3/s June 4-6, 1956; maximum gage height, 13.31 ft June 4, 1956; minimum discharge, 19 ft3/s Nov. 8, 1956, gage height, 2.43 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in early June 1894 probably was higher than that of June 4-6, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,400 ft3/s June 28, 29, gage height, 11.62 ft; minimum 1,910 ft3/s Feb. 11, gage height, 5.22 ft, minimum gage height, 5.21 ft Mar 19, 20.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1 to Feb. 3)

5.0	1690	9.0	12200
6.0	3500	10.0	15800
7.0	5900	11.0	19800
8.0	8900	12.0	24100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3650	3300	4790	5610	5690	1980	4830	13800	20300	19700	10300	7810
2	3650	3320	5040	5580	5690	1980	6800	14300	20300	19800	10200	7780
3	3650	3300	5040	5610	5690	2000	8030	14300	20300	19800	9750	7800
4	3630	3340	5040	5610	4020	1980	8060	14300	20300	19800	9600	7790
5	3630	4840	5320	5610	3860	1980	8060	14300	20300	20000	9060	7800
6	3680	4920	5530	5610	3280	1980	9290	14300	19800	20500	8680	7820
7	3680	4920	5530	5610	3240	1980	10200	14300	18700	20600	8670	8250
8	3630	4920	5530	5610	3220	1980	10200	7150	18000	20400	8670	9490
9	3610	5370	5550	5610	3240	2120	10200	14300	17400	20400	8680	9530
10	3610	5390	5550	5610	3240	2120	10200	14300	17400	20400	8660	9530
11	3610	5420	5550	5610	2130	2100	10200	14300	17400	19700	8680	9550
12	3610	5420	5550	5610	2060	2100	11400	14300	15700	18400	8670	9550
13	3590	5720	5550	5610	2030	2100	12200	14300	14300	18400	8240	9420
14	3610	5660	5550	5610	2000	2100	12200	14300	14300	18500	7730	8990
15	3680	5630	5580	5610	2030	2100	12200	14300	14400	18700	7780	8990
16	4940	5610	5580	5630	2010	2100	12200	13600	14400	18100	7790	9000
17	5020	5290	5580	5610	2000	2100	12200	12300	15600	17400	7790	9000
18	4990	4990	5580	5580	2010	2100	12200	12300	16900	17200	7740	9020
19	5020	5040	5550	5610	2000	2100	12100	12300	17300	15300	7750	9350
20	5020	5290	5580	5610	2000	2090	12200	12300	17300	13000	7750	9360
21	5020	5500	5580	5610	2000	2990	12200	12300	17400	11400	7760	9340
22	5020	5470	5580	5630	2010	4930	12200	12300	17600	11900	7750	9660
23	5020	5470	5580	5630	2010	5050	12200	12300	18900	13700	7760	10500
24	6300	5500	5590	5630	2000	5080	12200	12300	20600	14200	7750	11300
25	7520	5500	5610	5630	2000	7670	12200	12300	20800	12500	7780	12100
26	7520	5040	5580	5660	1980	7850	12200	12300	20800	11400	7760	11600
27	7450	5020	5580	5660	1980	7880	12200	12300	21500	10500	7770	11300
28	3540	5020	5580	5630	1980	7910	12300	14000	22300	11000	7750	11300
29	3300	4270	5610	5660	1980	7940	12300	17100	21600	11000	7770	10900
30	3320	4250	5580	5660	---	7940	12900	19400	20000	11000	7770	9090
31	3320	---	5610	5660	---	8000	---	20400	---	10500	7790	---
TOTAL	136840	148730	170040	174220	79380	114330	327870	426650	551900	505200	257600	282920
MEAN	4414	4958	5485	5620	2737	3688	10930	13760	18400	16300	8310	9431
MAX	7520	5720	5610	5660	5690	8000	12900	20400	22300	20600	10300	12100
MIN	3300	3300	4790	5580	1980	1980	4830	7150	14300	10500	7730	7780
AC-FT	271400	295000	337300	345600	157500	226800	650300	846300	1095000	1002000	510900	561200

CAL YR 1983 TOTAL 3059370 MEAN 8382 MAX 21000 MIN 1500 AC-FT 6068000
WTR YR 1984 TOTAL 3175660 MEAN 8677 MAX 22300 MIN 1980 AC-FT 6299000

13037500 SNAKE RIVER NEAR HEISE, ID

LOCATION.--Lat 43°36'45", long 111°39'33", in SE1/4 SW1/4 sec.5, T.3 N., R.41 E., Bonneville County, Hydrologic Unit 17040104, on left bank 850 ft upstream from Anderson canal headgate, 2.6 mi upstream from Heise, 6 mi east of Ririe, 24 mi upstream from Henrys Fork, and at mile 853.6.
DRAINAGE AREA.--5,752 mi2. Mean altitude, 7,770 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1910 to current year. Monthly discharge only for some periods, published in WSP 1317. Prior to 1911, published as "South Fork of Snake River near Heise."
REVISED RECORDS.--WSP 1217: Drainage area. WSP 1347: 1912.
GAGE.--Water-stage recorder. Datum of gage is 5,015.3 ft National Geodetic Vertical Datum of 1929. Prior to July 9, 1913, nonrecording gage, and July 9, 1913, to Sept. 29, 1922, water-stage recorder, at datum 2.65 ft higher.
REMARKS.--Records good. Flow partly regulated by Jackson Lake and Palisades Reservoir. Some diurnal fluctuations during winter from powerplant operations at Palisades. Riley ditch, 1.5 mi upstream, diverted 7,850 acre-ft during the year. Diversions from tributaries above station for irrigation in Wyoming and Idaho of about 104,000 acres, 1966 determination.
AVERAGE DISCHARGE.--74 years, 7,008 ft3/s, 5,077,000 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 60,000 ft3/s May 19, 1927, result of washing out of landslide on Gros Ventre River, gage height, about 16.0 ft, present datum; maximum discharge since filling of Palisades Reservoir, 26,200 ft3/s, gage height 8.40 ft, June 26, 29, 1974; minimum, 460 ft3/s Nov. 10, 12, 1956, gage height, -0.18 ft.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in early June 1894 was estimated as 65,000 ft3/s by U.S. Army Corps of Engineers.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,200 ft3/s June 28, 29, gage height, 7.89 ft; minimum, 2,480 ft3/s Mar. 20, gage height, 1.95 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4500	3940	5500	6340	6220	2540	6270	14900	22000	20400	11100	8330
2	4520	3990	5820	6340	6230	2540	6040	15800	21600	20400	10900	8280
3	4560	3970	5850	6340	6240	2560	8490	15800	21600	20500	10700	8280
4	4480	3940	5850	6310	5110	2540	8520	15800	21700	20500	10400	8270
5	4440	5030	5940	6310	4300	2530	8590	15800	21900	20500	10200	8290
6	4470	5700	6340	6310	3950	2540	9270	15800	21700	21000	9630	8320
7	4480	5760	6370	6310	3720	2530	10900	15700	20300	21200	9340	9490
8	4430	5790	6340	6280	3690	2530	10900	9780	19800	21000	9300	9880
9	4450	6060	6370	6310	3670	2650	10900	14400	18800	20800	9290	10200
10	4420	6310	6370	6240	3720	2650	10900	15700	18800	20800	9320	10100
11	4420	6370	6370	6210	3150	2660	10900	15900	19000	20500	9270	10200
12	4410	6340	6400	6210	2650	2660	11500	16100	18300	19000	9280	10200
13	4390	6460	6400	6240	2640	2650	12900	16300	16100	18800	9260	10200
14	4500	6650	6370	6240	2650	2680	12900	16900	16000	18800	9010	9620
15	4510	6490	6400	6240	2600	2690	13000	17600	16200	19100	8240	9590
16	5380	6430	6400	6210	2610	2710	13100	17400	16200	18800	8370	9500
17	5940	6370	6370	6210	2590	2680	13400	14500	16900	17900	8330	9570
18	5920	5820	6340	6180	2580	2670	13600	14100	18400	17500	8320	9560
19	5930	5790	6370	6120	2570	2660	13800	14100	18900	16300	8290	9850
20	5910	6000	6370	6150	2560	2640	13700	14500	18900	14400	8280	9950
21	5950	6370	6340	6150	2560	3020	13600	14500	18800	12100	8250	9990
22	5950	6310	6310	6180	2580	4500	13500	14100	18600	12200	8230	10100
23	5990	6310	6310	6210	2580	5320	13700	14000	19600	13400	8250	10800
24	6550	6340	6310	6240	2570	5350	13700	14300	21100	14700	8250	11800
25	8700	6370	6340	6180	2570	7170	13700	14000	21600	14000	8320	12800
26	8690	6000	6400	6210	2560	8260	13600	13900	21600	12400	8360	12500
27	8630	5790	6400	6200	2550	8260	13600	14000	21900	11500	8330	12000
28	5470	5820	6340	6200	2530	8290	13600	14700	23000	11200	8280	12000
29	3970	5280	6310	6170	2540	8290	13700	17800	22800	11600	8300	11800
30	3940	4930	6400	6180	---	8330	14000	20300	20900	11600	8280	10300
31	3970	---	6370	6200	---	8370	---	22200	---	11600	8330	---
TOTAL	163870	172730	194370	193220	96490	127470	356280	480680	593000	524500	278010	300850
MEAN	5286	5758	6270	6233	3327	4112	11880	15510	19770	16920	8968	10030
MAX	8700	6650	6400	6340	6240	8370	14000	22200	23000	21200	11100	12800
MIN	3940	3940	5500	6120	2530	2530	6040	9780	16000	11200	8230	8270
AC-FT	325000	342600	385500	383300	191400	252800	706700	953400	1176000	1040000	551400	596700
MEAN †	6002	5810	4893	4011	3755	3587	6868	21910	26500	14770	7368	5925
ACRE-FT †	369000	345700	300900	246600	216000	220500	408500	1347000	1576500	907800	453000	352500

CAL YR 1983 TOTAL 3419450 MEAN 9368 MAX 23400 MIN 2200 AC-FT 6782000 MEAN 9273 AC-FT 6782000
WTR YR 1984 TOTAL 3481470 MEAN 9512 MAX 23000 MIN 2530 AC-FT 6905000 MEAN 9292 AC-FT 6905000

†Adjusted for storage in Jackson Lake and Palisades Reservoir; no account taken for time of travel between reservoirs and Heise gaging station.

13037500 SNAKE RIVER NEAR HEISE, ID--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: January 1953 to September 1976, March 1978 to July 1979 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV 30...	1410	4890	362	8.5	-5.0	3.5	11.3	102	K4	K2	180
JAN 30...	1330	6150	387	8.7	-2.0	1.5	12.4	100	K2	K7	180
MAR 29...	1336	8310	415	8.4	8.5	4.0	11.0	101	K17	K18	190
MAY 30...	1044	20800	338	6.5	22.0	7.0	10.0	99	K32	100	170
JUL 20...	1038	15300	305	8.2	22.0	12.0	9.4	104	58	220	140
SEP 13...	1345	10300	319	8.5	25.0	14.5	8.8	104	K36	110	150

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV 30...	51	13	11	12	.4	1.9	142	41	10	.40	7.8
JAN 30...	50	13	11	12	.4	1.8	149	43	12	.30	7.6
MAR 29...	51	14	11	11	.4	2.0	155	51	11	.40	9.0
MAY 30...	50	11	8.3	10	.3	1.5	134	30	6.7	.30	8.7
JUL 20...	42	9.6	6.8	9	.3	1.4	117	26	5.3	.30	8.2
SEP 13...	42	9.8	8.4	11	.3	1.8	122	31	7.1	.40	8.9

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 30...	216	220	.29	2850	.13	.040	.50	.020	.010	.020
JAN 30...	222	230	.30	3690	.14	<.010	.20	<.010	<.010	.020
MAR 29...	246	240	.33	5520	.20	.030	.20	.010	.010	.020
MAY 30...	182	200	.25	10200	.19	.060	.50	.130	.030	<.010
JUL 20...	166	170	.23	6860	<.10	.020	.20	.020	.010	.010
SEP 13...	191	180	.26	5310	<.10	.030	.20	.020	.010	.010

K Results based on counts outside ideal colony range.

13037500 SNAKE RIVER NEAR HEISE, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV 30...	2	<10	57	<.5	<1	<1	<3	1	3	1
MAR 29...	2	<10	53	<.5	3	<1	<3	2	<3	<1
MAY 30...	1	30	75	1	<1	<1	<3	2	20	1
SEP 13...	2	<10	51	1	<1	<1	<3	2	<3	5

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 30...	34	3	<.1	<10	8	<1	<1	300	<6	14
MAR 29...	29	3	.1	<10	1	<1	<1	310	<6	14
MAY 30...	21	8	.2	<10	<1	<1	<1	270	<6	17
SEP 13...	24	4	.2	<10	4	<1	<1	230	<6	6

DATE	SEDI-MENT, SUS-PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAY 30...	125	62
JUL 20...	17	72
SEP 13...	7	90

13038000 DRY BED NEAR RIRIE, ID

LOCATION.--Lat 43°38'21", long 111°42'55", in NE1/4 NW1/4 sec.35, T.4 N., R.40 E., Jefferson County, Hydrologic Unit 17040201, on right bank 30 ft downstream from county road bridge, 1.3 mi downstream from head, and 2.7 mi east of Ririe.

PERIOD OF RECORD.--1923-27 and miscellaneous measurements during 1970-72 (formerly published as "Great Feeder Canal") October 1976 to current year (irrigation seasons only prior to 1977).

GAGE.--Water-stage recorder. Altitude of gage is 4,985 ft, from topographic map.

REMARKS.--Records fair. Flow from Snake River regulated by headgates 1.3 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,060 ft3/s July 14, 15, 1984; no flow at times during period 1923-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1830	1070	369	96	78	130	186	134	4490	4290	3790	3100
2	1840	1080	376	92	77	130	179	361	4340	4310	3720	3100
3	1840	1080	371	93	76	130	190	356	4190	4250	3450	3110
4	1830	1090	370	93	78	146	190	351	4090	4210	3430	3330
5	1820	1060	362	96	78	211	190	346	4000	4210	3390	3470
6	1820	1030	366	95	78	211	186	623	3940	4170	3510	3490
7	1830	1020	366	93	78	210	186	691	3660	4150	3770	3500
8	1800	1040	360	93	80	144	186	611	3350	4140	3910	2930
9	1810	1060	356	96	93	107	183	670	3160	4360	3920	3050
10	1790	1070	255	99	137	133	176	771	3180	4550	3900	3040
11	1800	1070	139	99	136	150	186	860	3240	4750	3900	3020
12	1800	1050	135	99	133	149	190	945	2910	4720	3910	3000
13	1810	1050	130	99	131	146	193	936	2710	5030	3900	2930
14	1610	1050	130	129	130	149	186	1030	2660	5060	3860	2930
15	1470	1050	127	182	130	162	186	1110	2740	5060	3670	3070
16	1570	1030	127	185	130	165	183	1110	2750	5020	3540	3170
17	1640	1020	124	170	130	162	155	1190	2860	4900	3340	3190
18	1520	993	125	135	130	158	41	1300	3690	4860	3260	3180
19	1120	985	115	130	130	158	41	1830	4000	4750	3140	3200
20	1120	990	113	93	130	176	40	2120	4110	4590	3070	3290
21	1130	999	107	68	130	193	37	2260	4070	4350	3060	3300
22	1150	982	104	57	130	200	36	2480	4110	4200	3070	3320
23	1140	807	104	41	130	203	37	2710	4310	4140	3070	3350
24	1170	647	102	51	130	239	36	2850	4690	4240	3090	3430
25	1200	572	103	68	130	286	35	3160	4800	4180	3090	3080
26	1350	557	99	73	130	332	34	3190	4720	4060	3110	2280
27	1360	541	96	74	130	322	32	3200	4930	3950	3120	2380
28	1190	541	90	74	130	322	32	3230	4560	3900	3090	2470
29	1050	508	112	74	130	288	32	3690	4360	3950	3100	2460
30	1050	366	91	76	---	149	41	4160	4280	3750	3100	2400
31	1060	---	93	78	---	200	---	4580	---	3750	3110	---
TOTAL	46600	27410	5915	3001	3333	5859	3605	52855	114680	135780	106390	91560
MEAN	1503	914	191	96.8	115	189	120	1705	3823	4380	3432	3052
MAX	1840	1090	376	185	137	332	193	4580	4930	5060	3920	3500
MIN	1050	366	90	41	76	107	32	134	2660	3750	3060	2280
AC-FT	92430	54370	11730	5950	6610	11620	7150	104800	227500	269300	211000	181600

CAL YR 1983 TOTAL 596671 MEAN 1635 MAX 4540 MIN 32 AC-FT 1183000
WTR YR 1984 TOTAL 596988 MEAN 1631 MAX 5060 MIN 32 AC-FT 1184000

13038500 SNAKE RIVER AT LORENZO, ID

LOCATION.--Lat 43°44'06", long 111°52'33", in NE1/4 SW1/4 sec.25, T.5 N., R.39 E., Jefferson County, Hydrologic Unit 17040201, on left bank 0.5 mi downstream from bridge on U.S. Highway 191, 0.5 mi north of Lorenzo, 5.5 mi upstream from Henrys Fork, and at mile 837.9.

DRAINAGE AREA.--5,810 mi2.

PERIOD OF RECORD.--January 1978 to current year. Prior to January 1978 monthly mean discharges for the period April to September for the years 1924 to 1927 published in WSP 1317.

REVISED RECORDS.--WDR ID-81-1: 1980.

GAGE.--Water-stage recorder. Altitude of gage is 4,850 ft, from topographic map. Prior to January 1975 at site 0.5 mi upstream at different datum.

REMARKS.--Records fair. Flow partly regulated by Jackson Lake and Palisades Reservoir. Some diurnal fluctuations during winter from powerplant operations at Palisades. Diversions above station for irrigation in Wyoming and Idaho of about 111,600 acres 1966 determination.

AVERAGE DISCHARGE.--6 years, 5,089 ft3/s, 3,687,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,000 ft3/s May 19, 1927, result of washing out of landslide on Gros Ventre River, gage height, 9.85 ft site and datum then in use; maximum discharge excluding 1927, 18,900 ft3/s June 10, 1981, gage height, 11.46 ft; minimum discharge, 48 ft3/s Nov. 15, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,600 ft3/s June 16, gage height 11.42 ft; minimum, 1,700 ft3/s Oct. 1, gage height, 3.80 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1720	2410	4570	5930	6000	1860	6670	14300	17900	14900	6030	3590
2	1740	2430	5040	5920	5970	1830	4880	14900	17400	14900	5810	3910
3	1840	2440	5020	5850	5960	1850	8310	14900	17300	14900	6030	3910
4	1810	2420	5050	5930	3700	1820	8510	14900	17100	14900	5610	3720
5	1720	3090	5050	5950	3680	1800	8530	14900	17900	14900	5480	3560
6	1750	4100	5440	5950	3150	1790	8810	14400	18200	15400	4740	3590
7	1770	4150	5530	5950	3100	1790	10800	14200	17600	15700	3760	3590
8	1780	4190	5530	5950	3080	1770	10800	10300	17100	15300	3540	5260
9	1750	4350	5580	5950	3100	1890	10800	10300	16400	15100	3390	5430
10	1750	4640	5800	5950	3160	1930	10700	14400	16200	14800	3380	5590
11	1760	4770	5960	5950	2810	1930	10600	14400	16500	14600	3330	5610
12	1860	4810	5990	5960	2030	1920	10800	14300	16500	13100	3390	5610
13	1880	4800	6000	5950	2020	1930	12400	15100	13700	12400	3360	5610
14	1940	5160	5950	5960	2030	1950	12500	15600	13400	12400	3300	5190
15	2210	4980	5980	5930	1950	1950	12300	16600	13400	12400	2740	4820
16	2350	4950	5950	5920	1970	2000	12300	16800	13600	12400	2940	4580
17	3300	4940	5900	5910	1960	1970	12400	14200	13800	11600	3210	4640
18	3360	4390	5850	5900	1940	1970	13000	13400	14800	10900	3330	4530
19	3850	4290	5800	5910	1920	1970	13100	12700	15200	10100	3460	4650
20	3910	4370	5850	5910	1900	1940	13200	12400	14900	9340	3540	4740
21	3920	4700	5850	5920	1890	2180	13200	12100	14600	5310	3630	4720
22	3940	4740	5900	5950	1880	3420	13200	11200	14400	5690	3610	4800
23	3960	4910	5850	5960	1860	4730	13200	10500	14900	7200	3670	5340
24	4060	5180	5900	6110	1890	4820	13400	10300	16100	9160	3700	6270
25	6470	5360	5950	6150	1880	6200	13300	9780	16500	8860	3790	7290
26	6660	5130	5900	6110	1850	8010	13400	9320	16000	7020	3690	5540
27	6720	4830	5950	6140	1840	8050	13200	9260	15500	6100	3910	7180
28	6850	4820	5930	6150	1830	8120	13200	9630	15800	5630	3590	7720
29	2500	4260	5940	6110	1820	8200	13400	12300	17000	6150	3910	7580
30	2440	2700	5930	6050	---	8450	13500	15200	15600	6340	3870	6700
31	2420	---	5960	6000	---	8370	---	17700	---	6360	3850	---
TOTAL	92060	128310	176930	185260	78170	108390	344630	411190	476200	343350	122070	160060
MEAN	2970	4277	5707	5976	2696	3496	11480	13260	15870	11080	3938	5335
MAX	6720	5360	6000	6150	6000	8450	13500	17700	18200	15700	6030	3380
MIN	1720	2410	4570	5850	1820	1770	4880	9260	13400	5630	2740	3560
AC-FT	182600	254500	350900	367500	155100	215000	683200	815600	944500	681000	242100	317500

CAL YR 1983 TOTAL 2319220 MEAN 6354 MAX 16300 MIN 1000 AC-FT 4600000
WTR YR 1984 TOTAL 2626410 MEAN 7176 MAX 18200 MIN 1720 AC-FT 5209000

13039000 HENRYS LAKE NEAR LAKE, ID

LOCATION.--Lat 44°35'31", long 111°21'10", in SW1/4 NW1/4 sec.26, T.15 N., R.43 E., Fremont County, Hydrologic Unit 17040202, at dam on Henrys Fork, 3.2 mi south of former Lake, Idaho, Post Office.

DRAINAGE AREA.--99.0 mi2, including 6.2 mi2 of Dry Creek basin.

PERIOD OF RECORD.--June 1923 to current year (fragmentary).

REVISED RECORDS.--WDR Idaho 1982: 1981 (contents).

GAGE.--Water-stage recorder. Datum of gage is 6,457.16 ft National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to June 28, 1978, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed on natural lake by concrete dam supported by downstream earth-fill dam; storage began Sept. 21, 1922; dam completed July 1923. Capacity, 90,420 acre-ft between gage heights 0.0 (low-water level of Henrys Lake prior to construction of dam) and 16.7 ft top of 4.7 ft flashboards on spillway. Floodwaters of Dry Creek are diverted into Henrys Lake at times. Water used for irrigation near St. Anthony. Records given herein represent usable contents.

COOPERATION.--Capacity table and occasional reservoir elevations furnished by North Fork Reservoir Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 92,300 acre-ft June 4, 1981, July 10, 11, 1983, gage height, 16.96 ft; minimum observed, 140 acre-ft Nov. 3, 1934, gage height, 0.03 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 91,800 acre-ft June 27, gage height, 16.90 ft, maximum gage height, 17.33 ft July 7, wind affected; minimum contents 84,700 acre-ft Apr. 8, gage height, 15.83 ft.

CONTENTS (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89300	88900	88900	87200	85700	85400	85000	86300	90400	91300	90000	86600
2	89300	89000	88900	87200	85500	85300	85000	86400	90300	91400	90200	86400
3	89500	89100	88900	87300	85500	85200	85000	86500	90400	91200	90000	86300
4	89500	89100	88900	87200	85500	85200	84900	86600	90600	91200	89400	86000
5	89500	88900	88800	87100	85500	85200	84900	86800	90900	91100	89900	85400
6	89700	88900	88800	87000	85600	85100	84800	86800	91300	91200	89700	84900
7	89900	89000	88700	87100	85400	85100	84700	86900	91500	91100	89600	84800
8	89500	88900	88700	87000	85400	85200	84800	87000	91500	91100	89600	84600
9	89700	88900	88700	87000	85300	85100	84800	87100	91500	91200	89500	84200
10	89900	89100	88700	87000	85400	85200	84700	87200	91600	91200	89700	84300
11	89900	89400	88700	86900	85500	85100	84700	87300	91600	91000	89300	83800
12	89900	89400	88700	86700	85500	85100	84900	87700	91600	91000	89400	83700
13	89900	89400	88700	86600	85500	85100	84900	87900	91500	90500	89200	83400
14	89700	89300	88600	86600	85500	85200	84900	88300	91400	90400	89100	83100
15	89700	89300	88700	86600	85400	85200	84700	88800	91400	90200	89100	83100
16	89500	89300	88700	86600	85400	85200	85100	88900	91400	90200	88900	83100
17	89500	89300	88700	86600	85500	85200	85100	89100	91400	90000	88900	83100
18	89700	89200	88500	86500	85400	85200	85200	89200	91400	89500	89200	83100
19	89600	89100	88400	86400	85400	85100	85300	89300	91400	89100	89600	83100
20	89600	89100	---	86400	85400	85200	85500	89300	91500	89100	89900	82900
21	89600	88900	---	86300	85500	85100	85500	89500	91500	89100	89600	82700
22	89500	88900	---	86100	85600	85100	85600	89700	91600	89700	89100	82700
23	89500	88900	---	86000	85400	85100	85600	89600	91600	89700	88900	82700
24	89300	88900	87700	86000	85400	85100	85700	89700	91700	90000	88500	82500
25	89300	89000	87700	86000	85400	85200	85800	89900	91600	89900	88300	82400
26	89100	89000	87700	85900	85400	85200	85800	90000	91400	89900	88100	82500
27	89300	89000	87500	86000	85300	85200	85800	90100	91300	89900	87700	82600
28	89300	89100	87500	86000	85200	85200	86000	90200	91400	90200	87300	82500
29	89300	89000	87500	85900	85400	85200	86200	90300	91400	90200	87200	82400
30	89000	89000	87400	85700	---	85200	86300	90300	91300	90400	86800	82500
31	88900	---	87300	85600	---	85100	---	90400	---	90200	86600	---
MAX	89900	89400	88900	87300	85700	85400	86300	90400	91700	91400	90200	86600
MIN	88900	88900	87300	85600	85200	85100	84700	86300	90300	89100	86600	82400
(†)	16.48	16.49	16.23	15.98	15.95	15.89	16.08	16.69	16.83	16.66	16.12	15.53
(‡)	+400	+100	-1700	-1700	-200	-300	+1200	+4100	+900	-1100	-3600	-4100

CAL YR 1983........ ‡ -1500
WTR YR 1984........ ‡ -6000

(†) Gage height, in feet, at end of month.
(‡) Change in contents, in acre-feet.

13039500 HENRYS FORK NEAR LAKE, ID

LOCATION.--Lat 44°35'42", long 111°20'37", in NE1/4 SW1/4 sec.26, T.15 N., R.43 E., Fremont County, Hydrologic Unit 17040202, on left bank 0.2 mi downstream from Henrys Lake Dam, 3.4 mi south of former Lake Post Office, and at mile 117.1.

DRAINAGE AREA.--99.3 mi2 including 6.2 mi2 of Dry Creek basin.

PERIOD OF RECORD.--May 1920 to current year (prior to October 1929, irrigation seasons only). Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1317: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,449.87 ft National Geodetic Vertical Datum of 1929, Corps of Engineers bench mark (levels by Bureau of Reclamation). May 1920 to September 1922, nonrecording gage at site 3 mi downstream and below mouth of Dry Creek at different datum. September 1922 to July 30, 1978, recording gage at site 125 ft upstream at different datum.

REMARKS.--Records poor. Flow regulated by Henrys Lake (see sta 13039000). Since 1923, floodwaters of Dry (Tygee) Creek have been diverted at times into Henrys Lake (some diverted during 1980).

AVERAGE DISCHARGE.--55 years (1930-84), 54.3 ft3/s, 39,340 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 907 ft3/s June 13, 1926, gage height, 5.40 ft; no flow for part of each day Sept. 17, 18, 1932, Sept. 5, 7-30, Oct. 1, 2, 1966, Sept. 18 to Oct. 6, 1977. Outflow from Henrys Lake was reported to have ceased entirely late in summer of 1889.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 274 ft3/s June 20, gage height, 2.17 ft; minimum daily discharge, 48.0 ft3/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	90	87	96	61	63	56	82	199	237	125	204
2	50	92	87	96	61	62	56	82	200	238	127	200
3	50	90	87	93	61	62	57	81	209	239	127	200
4	54	86	88	93	61	62	57	82	219	232	123	199
5	52	88	88	91	61	61	57	81	222	229	118	198
6	50	90	88	91	62	61	58	81	227	217	116	199
7	50	90	88	90	62	61	59	81	228	221	108	195
8	53	88	87	90	63	61	59	81	230	226	96	194
9	58	86	87	91	62	58	59	80	232	229	94	194
10	64	84	87	90	62	59	59	80	232	224	94	193
11	62	86	88	87	64	59	59	81	235	220	91	189
12	60	88	90	86	64	59	58	81	235	213	88	189
13	77	90	93	86	64	58	58	81	235	204	76	187
14	98	90	93	85	64	58	58	87	235	201	69	186
15	105	88	116	84	63	58	58	101	234	189	67	170
16	100	88	127	83	63	59	58	113	232	157	67	103
17	98	87	127	82	63	59	58	130	242	145	68	103
18	96	88	127	82	63	58	59	167	262	116	65	103
19	98	90	125	83	62	59	59	168	259	111	65	103
20	100	91	121	81	62	57	60	169	274	106	100	103
21	95	93	118	81	62	57	60	168	269	90	213	103
22	96	90	118	81	62	56	60	168	262	97	206	103
23	97	86	113	81	62	56	59	169	258	109	198	103
24	99	87	110	79	62	57	58	169	253	111	213	103
25	94	88	107	81	62	56	59	177	251	111	224	101
26	91	90	105	81	62	56	59	182	250	108	221	100
27	90	88	102	81	62	57	59	195	244	113	215	99
28	90	88	102	80	62	56	59	195	243	121	209	99
29	88	88	100	72	62	57	69	192	242	134	206	98
30	86	88	99	61	---	57	80	195	239	130	203	84
31	88	---	99	61	---	57	---	198	---	132	205	---
TOTAL	2437	2656	3154	2599	1806	1816	1784	3997	7152	5210	4197	4405
MEAN	78.6	88.5	102	83.8	62.3	58.6	59.5	129	238	168	135	147
MAX	105	93	127	96	64	63	80	198	274	239	224	204
MIN	48	84	87	61	61	56	56	80	199	90	65	84
AC-FT	4830	5270	6260	5160	3580	3600	3540	7930	14190	10330	8320	8740

CAL YR 1983	TOTAL	36775	MEAN	101	MAX	262	MIN	37	AC-FT	72940
WTR YR 1984	TOTAL	41213	MEAN	113	MAX	274	MIN	48	AC-FT	81750

Note.--No gage-height record Oct. 1 to Nov. 8, and Apr. 6 to July 5.

13042500 HENRYS FORK NEAR ISLAND PARK, ID

LOCATION.--Lat 44°24'59", long 111°23'41", in SW1/4 SW1/4 sec.28, T.13 N., R.43 E., Fremont County, Hydrologic Unit 17040202, Targhee National Forest, on left bank 0.2 mi downstream from Island Park Dam, 0.2 mi upstream from Buffalo River, 1 mi southwest of Island Park Post Office, and at mile 91.5.

DRAINAGE AREA.--481 mi2. Mean altitude, 7,080 ft.

PERIOD OF RECORD.--January 1933 to current year.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,225 ft, from river-profile map. Prior to May 15, 1935, nonrecording gage at site about 0.8 mi upstream at different datum. May 15 to Nov. 30, 1935, water-stage recorder at site 1,000 ft downstream at different datum.

REMARKS.--Records good. Flow regulated by Henrys Lake (see sta 13039000) and Island Park Reservoir. Diversions above station for irrigation of about 15,500 acres, 1966 determination, a considerable portion of which consists of partly subirrigated meadows.

AVERAGE DISCHARGE.--51 years (1933-84), 614 ft3/s, 444,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,030 ft3/s May 23, 1984, gage height, 6.06 ft; minimum daily, 1 ft3/s Nov. 16 to Dec. 7, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,030 ft3/s May 23, gage height, 6.06 ft; minimum daily discharge, 220 ft3/s Oct. 4-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	697	293	436	682	698	645	640	895	2120	1480	2650	1110
2	549	293	436	682	698	645	640	895	2160	1460	2560	1140
3	76	297	436	687	698	645	640	895	2090	1500	2720	1130
4	2.0	297	440	687	698	645	640	895	2070	1520	2730	1090
5	2.0	297	455	687	698	650	640	895	2110	1460	2670	1090
6	2.0	297	481	687	698	501	640	902	2280	1520	2680	1090
7	2.0	301	481	687	692	275	640	902	2570	1690	2680	1080
8	2.0	301	509	687	682	278	640	902	2760	1620	2590	1030
9	2.0	353	562	692	665	278	640	902	2760	1730	2570	1070
10	2.0	421	566	692	650	278	640	967	2650	1980	2550	1110
11	2.0	421	566	692	650	278	640	1040	2640	2030	2420	988
12	2.0	421	566	692	650	357	640	1040	2540	2040	2560	923
13	2.0	421	566	692	650	640	640	1040	2500	2060	2600	934
14	2.0	421	568	692	650	640	640	1060	2370	2060	2570	853
15	5.0	421	570	692	650	640	640	1180	2270	2070	2550	650
16	204	421	575	687	650	640	640	1700	2200	2140	2540	601
17	267	421	575	687	650	640	640	2110	2220	2220	2510	581
18	270	421	579	687	650	640	640	2310	2170	2300	2460	562
19	278	430	579	687	645	640	640	2540	2150	2370	2410	553
20	285	430	579	687	645	640	640	2760	2100	2390	2550	534
21	285	425	579	687	645	640	640	2900	2060	2340	1850	525
22	289	425	583	692	645	640	640	2990	1930	2320	1110	506
23	289	425	583	692	645	640	640	2930	1820	2300	1070	495
24	289	425	583	687	645	640	640	2720	1760	2290	1090	482
25	289	430	583	687	645	640	670	2630	1700	2330	1070	472
26	293	430	583	687	645	640	698	2530	1670	2380	1060	448
27	293	430	620	687	645	640	698	2460	1620	2380	1120	506
28	293	436	682	687	645	640	859	2350	1580	2420	1150	525
29	293	434	682	687	645	640	895	1740	1570	2520	1180	520
30	297	434	682	687	---	640	895	2060	1510	2600	1150	520
31	293	---	682	687	---	640	---	2100	---	2640	1120	---
TOTAL	5856.0	11670	17367	21332	19172	17638	20075	53240	63950	64160	64670	23179
MEAN	189	389	560	688	661	569	669	1717	2132	2070	2086	773
MAX	697	434	682	692	698	650	895	2990	2760	2640	2730	1140
MIN	2.0	293	436	682	645	278	640	895	1510	1460	1060	448
AC-FT	11620	23150	34450	42310	38030	34980	39820	105600	126800	127300	128300	45980

CAL YR 1983	TOTAL	331720.0	MEAN	909	MAX	2540	MIN	2.0	AC-FT	658000
WTR YR 1984	TOTAL	382309.0	MEAN	1045	MAX	2990	MIN	2.0	AC-FT	758300

13046023 HENRYS FORK NEAR ASHTON, ID

LOCATION.--Lat 44°04'12", long 111°30'34", in NW1/4 NE1/4 NW1/4 sec.33, T.9 N., R.42 E., Fremont County, Hydrologic Unit 17040203, on left bank 0.8 mi downstream from powerplant, 3.1 mi west of Ashton, and at mile 44.2.

DRAINAGE AREA.--1,040 mi2. Mean altitude, 6,710 ft.

PERIOD OF RECORD.--April 1890 to June 1891, August 1902 to June 1909, April 1920 to current year (seasonal records only 1920-26). Monthly discharge only for some periods, published in WSP 1317. Published as "Henrys Fork in canyon, above Fall River," 1890-91, and as "North Fork of Snake River near Ora," 1902-09.

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1347: 1890-91.

GAGE.--Water-stage recorder. Altitude of gage is 5,090 ft, from topographic map. April 1890 to June 1891, nonrecording gage at site 5.5 mi downstream at different datum. August 1902 to Apr. 15, 1921, nonrecording gage, and Apr. 16, 1921, to May 3, 1930, water-stage recorder at site 1.0 mi downstream at different datum. May 3, 1930, to Sept. 30, 1960, water-stage recorder at site 0.5 mi upstream at different datum.

REMARKS.--Records good. Diurnal fluctuation caused by powerplant above station. Flow regulated by Henrys Lake (see sta 13039000) and Island Park Reservoir. Diversions above station for irrigation of about 24,500 acres (1966 determination).

AVERAGE DISCHARGE.--64 years (1903-08, 1927-84), 1,488 ft3/s, 1,078,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,140 ft3/s May 15, 1984, gage height, 6.50 ft; minimum, 53 ft3/s Sept. 20, 1960, gage height, 5.45 ft (site and datum then in use); minimum daily, 171 ft3/s Oct. 18, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,140 ft3/s May 15, gage height, 6.50 ft; minimum, 350 ft3/s Mar. 20, gage height, 2.00 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used July 12 to Sept. 3)

3.00	1000	5.00	3910
3.50	1490	6.00	6500
4.00	2130	7.00	10000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2080	1320	1520	1430	1540	1470	1570	2420	5000	2950	3600	2100
2	2240	1340	1490	1390	1550	1610	1460	2560	4390	2950	3630	2070
3	1790	1280	1430	1420	1530	1460	1590	2560	4270	2910	3640	2070
4	1450	1260	1490	1460	1540	1430	1470	2570	4450	2940	3720	2040
5	1130	1340	1390	1480	1620	1400	1660	2510	4900	2870	3730	2050
6	1130	1380	1430	1500	1510	1450	1660	2630	5070	2890	3680	2100
7	1070	1450	1530	1470	1510	1200	1640	2460	5820	3060	3610	2070
8	1020	1440	1430	1430	1500	1040	1610	2530	6670	3010	3740	2080
9	1090	1430	1530	1390	1470	1090	1640	2870	6300	2940	3700	2070
10	1190	1500	1710	1420	1490	1040	1600	3300	5730	3150	3780	2030
11	1180	1600	1660	1400	1520	1100	1610	3640	6040	3240	3730	2020
12	1240	1590	1580	1340	1510	1390	1590	3860	5860	3210	3870	1900
13	1250	1610	1540	1300	1510	1370	1560	4870	5350	3190	3910	1910
14	1330	1510	1540	1320	1510	1420	1560	6410	4990	3160	3900	1890
15	1460	1440	1540	1350	1490	1610	1620	7670	4650	3150	3830	1770
16	1440	1520	1540	1300	1490	1480	1750	7660	4670	3150	3600	1740
17	1600	1530	1570	1250	1490	1590	1890	6440	4430	3210	3310	1730
18	1340	1610	1290	1250	1480	1460	2030	6120	4270	3220	3740	1730
19	1350	1540	1480	1250	1470	1450	2400	6470	4150	3240	3700	1730
20	1350	1530	1220	1300	1450	1660	2440	7050	4060	3380	3640	1770
21	1310	1360	1180	1350	1520	1480	2260	7320	4020	3410	3410	1860
22	1340	1400	1120	1420	1590	1480	2330	6910	3870	3510	2160	1830
23	1360	1420	1070	1340	1520	1480	2540	6730	3620	3510	3050	1820
24	1430	1600	1230	1320	1510	1480	2730	6780	3510	3450	2030	1800
25	1400	1590	1440	1510	1500	1580	2790	6290	3420	3360	2030	1910
26	1320	1440	1530	1540	1490	1470	2510	5840	3410	3360	2080	1540
27	1330	1420	1410	1450	1490	1470	2390	5710	3290	3410	2030	1610
28	1330	1360	1340	1520	1430	1470	2480	5370	3190	3430	2160	1610
29	1310	1380	1380	1570	1480	1470	2550	5080	3100	3510	2170	1490
30	1310	1350	1450	1600	---	1470	2400	4500	3050	3570	2140	1800
31	1310	---	1500	1590	---	1470	---	5150	---	3620	2100	---
TOTAL	42280	43340	44520	43730	43750	43360	59330	152560	135320	99920	99550	56200
MEAN	1364	1451	1436	1411	1509	1399	1978	4921	4511	3223	3212	1873
MAX	2240	1610	1710	1600	1620	1610	2790	7670	6670	3620	3980	2100
MIN	1020	1260	1070	1250	1450	1040	1460	2420	3050	2870	2030	1490
AC-FT	83860	86360	88310	86740	86780	86000	117700	302600	268400	198200	197500	111500

CAL YR 1983	TOTAL	784840	MEAN	2150	MAX	4930	MIN	1020	AC-FT 1557000
WTR YR 1984	TOTAL	864090	MEAN	2361	MAX	7670	MIN	1020	AC-FT 1714000

13047500 FALLS RIVER NEAR SQUIRREL, ID

LOCATION.--Lat 44°04'07", long 111°14'25", in NW1/4 NE1/4 sec.34, T.9 N., R.44 E., Fremont County, Hydrologic Unit 17040203, on right bank 0.2 mi upstream from road bridge, 0.5 mi downstream from headgates of Marysville Canal, 4 mi northeast of Squirrel, 10.8 mi upstream from Conant Creek, and at mile 19.8.

DRAINAGE AREA.--326 mi2. Mean altitude, 7,520 ft.

PERIOD OF RECORD.--August 1902 to June 1909 (gage heights only prior to October 1904), May 1918 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "Fall River at Wilson's Mill, near Marysville" 1902, as "Fall River near Marysville" 1903, as "Fall River at Fremont" 1904-09, and as "Fall River near Squirrel" 1918-59.

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1317: 1908. WSP 1347: 1905.

GAGE.--Water-stage recorder. Altitude of gage is 5,590 ft, from topographic map. Prior to Jan. 1, 1904, nonrecording gages at site 3 mi upstream at different datum, Jan. 1, 1904 to Nov. 6, 1937, nonrecording gage at site 200 ft upstream at different datum, and Nov. 7, 1937, to Oct. 7, 1948, nonrecording gage at site 100 ft downstream at datum 0.29 ft lower.

REMARKS.--Records good. Flow since October 1939 partly regulated by Grassy Lake. Diversions above station for irrigation of about 17,000 acres below station and in adjacent basins, and diversions from tributary upstream from station for irrigation of about 500 acres (1966 determination).

AVERAGE DISCHARGE.--70 years (1905-08, 1919-84), 785 ft3/s, 568,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,060 ft3/s June 9, 1981; minimum observed, 72 ft3/s Feb. 9, 1930.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,300 ft3/s May 31, gage height, 4.28 ft; minimum daily discharge, 330 ft3/s Jan. 18.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used June 9-15, July 2-16, Sept. 26-30;
stage-discharge relation affected by ice Dec. 20-25, Jan. 15-18)

1.0	330	3.0	2700
1.5	715	4.0	4660
2.0	1250	5.0	7140

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1080	795	724	635	518	470	454	754	4570	3360	999	952
2	1360	829	753	610	510	481	460	789	3770	2850	999	886
3	1340	880	756	604	556	484	455	797	3590	2680	968	862
4	1090	823	756	604	581	473	467	775	3480	2480	936	848
5	975	940	712	601	536	455	474	839	3790	2330	915	836
6	917	1070	704	610	508	456	499	783	3750	2170	894	854
7	873	1170	684	607	506	460	512	727	3380	2020	873	834
8	830	1170	720	597	498	463	489	748	3310	1980	842	736
9	900	1010	715	589	495	476	503	872	2820	1780	831	752
10	1120	960	758	572	529	473	485	1020	2370	1580	821	718
11	1020	1010	724	585	505	486	487	1130	2500	1450	810	707
12	911	1010	731	581	506	485	474	1460	2650	1400	831	699
13	862	995	707	567	517	470	472	1980	2390	1370	801	681
14	945	941	693	550	540	490	461	2950	2670	1330	807	670
15	1040	905	666	520	500	486	502	3990	3070	1230	796	665
16	938	884	656	480	504	500	585	4070	3340	1170	967	674
17	883	910	661	420	504	453	686	2800	3420	1110	930	656
18	864	893	599	330	492	479	809	2820	3690	1060	859	644
19	832	850	622	521	481	470	894	3270	3270	1040	847	638
20	804	860	550	555	475	470	911	3960	3380	1010	903	636
21	787	838	470	591	486	474	821	3960	3460	1050	826	740
22	776	791	410	624	499	477	863	3570	3500	1080	831	769
23	858	800	370	618	486	462	954	3730	3440	1130	847	753
24	1120	815	460	617	488	466	932	4510	3400	1090	905	723
25	915	837	560	615	491	466	955	3670	3650	1030	874	681
26	870	782	646	594	431	480	862	3460	3910	1060	882	657
27	836	746	673	579	473	454	794	3230	3950	1010	851	644
28	807	763	631	544	470	441	767	3270	3890	1050	838	622
29	795	732	629	532	473	461	792	3630	3830	1040	864	602
30	787	668	656	523	---	455	743	4330	3750	1030	872	586
31	783	---	655	519	---	455	---	5100	---	999	909	---
TOTAL	28918	26680	20051	17494	14606	14601	19562	78994	101990	46969	27128	21725
MEAN	933	889	647	564	504	471	652	2548	3400	1515	875	724
MAX	1360	1170	758	635	581	500	955	5100	4570	3360	999	952
MIN	776	668	370	330	470	441	454	727	2370	999	796	586
AC-FT	57360	52920	39770	34700	28970	28960	38800	156700	202300	93160	53810	43090

CAL YR 1983 TOTAL 365108 MEAN 1000 MAX 4100 MIN 370 AC-FT 724200
WTR YR 1984 TOTAL 418718 MEAN 1146 MAX 5100 MIN 330 AC-FT 830500

13049500 FALLS RIVER NEAR CHESTER, ID

LOCATION.--Lat 44°01'06", long 111°33'57", in NW1/4 SE1/4 sec.13, T.8 N., R.41 E., Fremont County, Hydrologic Unit 17040203, on right bank, 0.2 mi upstream from highway bridge, at mile 0.8, and 1.5 mi north of Chester.

DRAINAGE AREA.--320 mi2, approximately. Mean altitude, 6,970 ft.

PERIOD OF RECORD.--April 1920 to current year (irrigation seasons only prior to 1962). Prior to October 1959, published as "Fall River near Chester."

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,051.9 ft National Geodetic Vertical Datum of 1929. Prior to Aug. 9, 1920, nonrecording gage at site 200 ft downstream at same datum. Aug. 9, 1920, to Apr. 28, 1921, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter period, which are fair. Flow since October 1939 partly regulated by Grassy Lake. Diversions above station for irrigation of about 4,600 acres above station and about 36,000 acres in adjacent basins (1966 determination). Station is below all diversions from Falls River.

AVERAGE DISCHARGE.--23 years (1961-84), 790 ft3/s, 572,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 7,730 ft3/s June 9, 1981, gage height, 7.83 ft; maximum gage height recorded, 7.93 ft Jan. 18, 1966 (backwater from ice); minimum discharge recorded, 7 ft3/s June 27, 1961, gage height, 0.74 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,260 ft3/s May 16, gage height, 6.27 ft, maximum gage height, 6.78 ft Dec. 21 (backwater from ice); minimum daily discharge, 405 ft3/s Jan. 18.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 19 to Mar. 12)

2.0	282	4.0	2070
2.5	556	5.0	3420
3.0	1000	6.0	4850
		7.0	6400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1130	877	866	730	580	540	570	1010	4260	3200	752	762
2	1420	882	896	700	580	550	580	1090	3680	2780	752	711
3	1220	960	890	680	630	560	562	1100	3450	2380	732	698
4	1040	905	904	670	660	550	571	1070	3360	2100	640	690
5	921	995	856	670	630	550	590	1150	3530	1910	630	668
6	900	1200	850	680	600	540	620	1070	3570	1730	607	693
7	883	1210	796	670	605	530	640	995	3620	1610	575	675
8	829	1270	852	660	600	540	610	1020	3540	1510	530	564
9	998	1110	839	650	580	550	640	1170	3240	1300	511	576
10	1100	1050	888	640	605	540	605	1380	2780	1120	511	567
11	995	1120	860	650	580	560	620	1510	2860	1000	511	550
12	908	1140	872	640	580	550	600	1810	3210	920	530	536
13	882	1120	834	630	595	540	595	2470	2750	860	530	516
14	1020	1030	815	620	620	560	590	3390	2890	820	531	507
15	1080	1010	782	590	585	550	670	4510	3140	730	511	505
16	967	970	794	560	580	590	780	4790	3340	685	678	510
17	908	1010	787	500	585	580	800	3380	3380	630	749	492
18	888	1010	655	405	570	570	1070	3210	3520	583	622	477
19	863	951	715	590	560	565	1180	3500	3310	519	606	473
20	835	960	630	630	545	560	1210	4170	3280	500	672	472
21	816	931	550	670	550	565	1150	4300	3350	566	599	553
22	798	894	470	700	565	570	1210	3810	3320	674	591	665
23	836	918	420	680	550	555	1210	3890	3280	894	616	603
24	1140	953	560	690	550	555	1190	4410	3220	894	717	604
25	948	975	670	700	560	555	1210	4030	3310	772	688	603
26	906	920	720	670	550	585	1110	3670	3410	793	710	580
27	878	877	740	650	545	580	1030	3560	3430	752	668	571
28	856	902	710	630	550	555	1000	3480	3780	813	638	542
29	855	867	700	610	555	580	1030	3630	3630	803	653	526
30	862	737	720	590	---	580	980	4010	3490	813	655	507
31	860	---	740	590	---	580	---	4510	---	762	685	---
TOTAL	29542	29774	23381	19745	16845	17335	25223	87095	100750	35423	19400	17396
MEAN	953	992	754	637	581	559	841	2810	3358	1143	626	580
MAX	1420	1270	904	730	660	590	1210	4790	4260	3200	752	762
MIN	798	737	420	405	545	530	562	995	2750	500	511	472
AC-FT	58600	59060	46380	39160	33410	34380	50030	172800	199800	70260	38480	34500

CAL YR 1983 TOTAL 384215 MEAN 1053 MAX 4650 MIN 349 AC-FT 762100
WTR YR 1984 TOTAL 421909 MEAN 1153 MAX 4790 MIN 405 AC-FT 836900

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13050500 HENRYS FORK AT ST. ANTHONY, ID

LOCATION.--Lat 43°58'00", long 111°40'20", in NW1/4 sec.6, T.7 N., R.41 E., Fremont County, Hydrologic Unit 17040203, on right bank 0.5 mi upstream from bridge on main street of St. Anthony, 6.4 mi downstream from Falls River, and at mile 32.4.

DRAINAGE AREA.--1,770 mi2, approximately. Mean altitude, 6,670 ft.

PERIOD OF RECORD.--March 1919 to current year (irrigation seasons only prior to 1962).

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1317: 1923(M).

GAGE.--Water-stage recorder. Datum of gage is 4,950.7 ft National Geodetic Vertical Datum of 1929. March 1919 to May 7, 1922, nonrecording gages and May 8, 1922, to Aug. 14, 1931, water-stage recorder, at site 150 ft downstream at datum 0.05 ft lower.

REMARKS.--Records good. Diversions above station for irrigation of about 21,000 acres below and about 56,000 acres above station of which about 1,100 acres are by withdrawals from ground water (1965 determination). Flow regulated by powerplant 17 mi above station and by Henrys Lake (see sta 13039000), Island Park Reservoir, and Grassy Lake.

AVERAGE DISCHARGE.--23 years (1962-84), 2,005 ft3/s, 1,453,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 13,200 ft3/s May 16, 1984, gage height, 8.62 ft; minimum discharge recorded, 21 ft3/s July 9, 1973, gage height, 1.91 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,200 ft3/s May 16, gage height, 8.62 ft; minimum, 1,080 ft3/s Sept. 29, gage height, 3.42 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used May 30, June 2-5, June 13 to Aug. 21;
stage-discharge relation affected by ice Nov. 29, Dec. 20 to Feb. 29)

3.0	600	6.0	5790
3.5	1180	7.0	8320
4.0	1880	8.0	11300
5.0	3620	9.0	14400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2700	2010	2270	2030	2180	2170	2120	3090	7790	4820	3850	2450
2	2950	2030	2320	2060	2210	2120	2000	3270	6540	4390	3850	2370
3	2650	2070	2230	1960	2170	2130	2070	3330	6090	4160	3790	2370
4	2310	1940	2330	2010	2200	2090	2060	3290	6260	4060	3730	2330
5	1790	2120	2170	2070	2290	2050	2170	3560	6780	3990	3730	2310
6	1680	2370	2240	2090	2230	2090	2220	3360	7190	3770	3700	2310
7	1760	2390	2170	2120	2200	1910	2250	3140	7560	3710	3750	2290
8	1610	2560	2210	2000	2210	1710	2180	3140	8500	3630	3630	2170
9	1690	2330	2290	1950	2210	1770	2200	3540	8260	3540	3570	2210
10	2040	2350	2500	2010	2170	1670	2150	4100	7170	3410	3600	2150
11	1990	2490	2450	1920	2200	1780	2150	4460	7440	3410	3550	2160
12	1940	2590	2370	1870	2180	1760	2100	4510	8100	3300	3590	2230
13	1910	2550	2350	1820	2170	1950	2070	6150	7030	3230	3640	2010
14	2040	2430	2300	1860	2150	2060	2020	8760	6830	3200	3660	1950
15	2290	2300	2290	1900	2130	2220	2100	11700	6750	3100	3600	1860
16	2210	2340	2250	1980	2180	2130	2300	12500	6750	3040	3670	1910
17	2090	2380	2280	1800	2150	2200	2510	9190	6710	2940	3920	1740
18	2010	2470	1980	1720	2110	2120	2750	9250	6630	3000	3820	1690
19	1990	2370	2350	1780	2080	2100	3250	5950	6440	2970	3770	1650
20	1970	2350	2000	1860	2120	2100	3400	10600	6140	3100	3770	1650
21	1900	2160	1600	1920	2300	2120	3090	11100	6090	3330	3550	1840
22	1920	2150	1590	2000	2370	2120	3120	9970	5860	3750	2330	2080
23	1940	2200	1510	1920	2320	2100	3400	9650	5610	4050	2140	2010
24	2300	2420	1700	1850	2280	2090	3520	10300	5380	4060	2250	1970
25	2120	2430	1900	2060	2270	2180	3640	9490	5360	3780	2290	2080
26	1990	2280	2100	2180	2260	2110	3330	8200	5430	3670	2330	1910
27	2000	2190	2000	2080	2240	2080	3120	7940	5390	3620	2310	1940
28	2020	2140	1900	2120	2210	2060	3140	7420	5230	3740	2410	1860
29	2000	2060	1980	2200	2200	2080	3230	7220	5050	3900	2430	1690
30	1990	2110	2040	2260	---	2060	3070	7000	4990	3960	2450	1630
31	1990	---	2120	2200	---	2040	---	7990	---	3940	2410	---
TOTAL	63990	68580	65820	61630	63990	63170	78730	215370	195730	112470	101360	60530
MEAN	2064	2286	2123	1988	2207	2038	2624	6947	6523	3628	3270	2018
MAX	2950	2590	2500	2260	2370	2220	3640	12500	8500	4820	3920	2450
MIN	1610	1940	1510	1720	2080	1670	2000	3090	4990	2940	2140	1650
AC-FT	126900	136000	130600	122200	126900	125300	156200	427200	388200	223100	201000	120100

CAL YR 1983 TOTAL 1002360 MEAN 2748 MAX 9000 MIN 1500 AC-FT 1988000
WTR YR 1984 TOTAL 1151340 MEAN 3146 MAX 12500 MIN 1510 AC-FT 2284000

13052200 TETON RIVER ABOVE SOUTH LEIGH CREEK, NEAR DRIGGS, ID

LOCATION.--Lat 43°46'54", long 111°12'30", in NW1/4 NE1/4 sec.12, T.5 N., R.44 E., Teton County, Hydrologic Unit 17040204, on right bank 75 ft upstream from county road bridge, 3.5 mi southwest of Tetonia, 6.5 mi northwest of Driggs, and at mile 56.3.

DRAINAGE AREA.--335 mi2, approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,952.9 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter periods, which are fair. Diversions above station for irrigation of about 42,000 acres of which about 1,000 acres are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--23 years, 417 ft3/s, 302,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,460 ft3/s July 10, 11, 1983, gage height, 5.17 ft; maximum gage height, 6.37 ft Feb. 1, 1963; minimum, 54 ft3/s Nov. 23, 1977, gage height, 0.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,730 ft3/s June 2, gage height, 3.87 ft; minimum daily, 230 ft3/s Dec. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	593	414	375	285	320	318	331	460	1660	1430	740	484
2	570	416	415	275	300	320	335	508	1680	1380	771	470
3	608	442	400	290	320	333	343	569	1540	1340	721	460
4	584	431	387	305	395	320	354	538	1530	1300	666	452
5	512	458	380	325	300	314	375	510	1380	1300	639	450
6	477	477	375	350	305	326	433	542	1210	1350	647	460
7	452	511	356	335	320	315	466	509	1130	1410	611	459
8	441	525	439	315	310	317	450	476	1120	1380	578	463
9	451	464	428	325	295	325	473	478	1020	1310	546	465
10	468	460	400	300	313	321	473	504	970	1190	528	453
11	476	512	377	320	295	325	466	535	1120	1140	511	448
12	463	542	393	315	305	330	418	596	1150	1100	511	445
13	453	508	383	310	290	320	394	663	954	1040	503	437
14	507	489	380	305	280	347	409	768	992	988	503	429
15	521	459	377	290	260	363	490	1070	1080	960	494	428
16	485	448	373	275	285	369	617	1450	1230	922	558	432
17	461	507	320	260	315	354	726	1530	1350	890	554	427
18	452	599	285	285	295	348	828	1170	1380	868	515	418
19	452	492	310	320	285	338	833	1040	1350	900	504	414
20	441	459	280	365	275	340	758	1110	1330	946	506	414
21	442	450	250	345	295	360	612	1280	1430	990	488	431
22	435	431	230	335	290	352	606	1240	1390	1050	475	447
23	436	418	245	330	310	345	604	1100	1280	986	474	446
24	469	421	280	325	325	353	575	1150	1220	858	487	457
25	448	440	305	320	340	344	518	1240	1260	770	491	445
26	426	427	325	315	330	339	485	1150	1300	776	522	433
27	415	450	260	305	319	329	455	1040	1350	794	493	423
28	413	409	310	295	343	327	451	986	1390	863	469	417
29	408	365	340	330	359	329	462	1030	1430	849	455	411
30	406	330	325	315	---	327	463	1190	1470	877	448	410
31	411	---	300	300	---	326	---	1430	---	745	466	---
TOTAL	14576	13754	10603	9665	8886	10374	15203	27862	38696	32702	16874	13228
MEAN	470	458	342	312	306	335	507	899	1290	1055	544	441
MAX	608	599	439	365	359	369	833	1530	1680	1430	771	484
MIN	406	330	230	260	260	314	331	460	954	745	448	410
AC-FT	28910	27280	21030	19170	17630	20580	30160	55260	76750	64860	33470	26240

CAL YR 1983 TOTAL 207416 MEAN 568 MAX 2300 MIN 160 AC-FT 411400
WTR YR 1984 TOTAL 212423 MEAN 580 MAX 1680 MIN 230 AC-FT 421300

Note.--No gage-height record Jan. 28 to Feb. 12, June 19 to July 26.

13055000 TETON RIVER NEAR ST. ANTHONY, ID

LOCATION.--Lat 43°55'38", long 111°36'55", in SW1/4 SW1/4 sec.15, T.7 N., R.41 E., Fremont County, Hydrologic Unit 17040204, on right bank 0.5 mi upstream from railroad bridge, 4 mi southeast of St. Anthony, and at mile 22.

DRAINAGE AREA.--890 mi2, approximately.

PERIOD OF RECORD.--January 1890 to September 1893, April 1903 to June 1909, (irrigation seasons only 1920-21, 1923-33) April 1920 to May 1976 (destroyed by flood of June 5, 1976), October 1977 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "near Wilford" or "at Chases Ranch" 1890-93.

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1347: 1903-6, 1908-9. WDR ID-80-1: 79.

GAGE.--Water-stage recorder. Altitude of gage is 4,970 ft, from topographic map. Apr. 5, 1890, to Sept. 30, 1893, nonrecording gage at site 1 mi downstream at different datum. Apr. 23, 1903, to June 30, 1909, nonrecording gage at site 0.8 mi upstream at different datum. Apr. 19, 1920, to May 1, 1921, nonrecording gage and May 2, 1921, to Nov. 5, 1933, water-stage recorder, at site 400 ft downstream at different datum. Nov. 6, 1933, to June 5, 1976, water-stage recorder, at approximately same site at different datum.

REMARKS.--Records good. Diversions above station for irrigation of about 58,000 acres of which about 4,400 acres are by withdrawals from ground water (1966 determination). Water is diverted at times (since 1939) during irrigation season from Henrys Fork through Cross Cut Canal to Teton River 0.8 mi upstream from station, 2,940 acre-ft diverted into river during 1984 irrigation season.

AVERAGE DISCHARGE.--49 years (1934-75, 1978-84), 828 ft3/s, 599,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1,700,000 ft3/s, estimated from the average of slope-area measurements of peak flow at Teton, 5.3 mi downstream and near Newdale, 3.4 mi upstream, June 5, 1976 (Teton Dam failure); maximum stage, 42.2 ft; maximum discharge excluding 1976, 11,000 ft3/s Feb. 12, 1962, gage height, 9.36 ft, on basis of contracted-opening measurement of peak flow, site and datum then in use; minimum, 103 ft3/s Oct. 4, 1975, gage height, 2.38 ft, site and datum then in use, due to filling of Teton Reservoir. Minimum, excluding the filling period of Teton Reservoir, 203 ft3/s Jan. 13, 1983, gage height 2.27 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,100 ft3/s May 16, gage height, 6.41 ft, minimum, 373 ft3/s Jan. 18, gage height 2.13 ft, but may have been less during period of no gage-height record Dec. 23 to Jan. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1200	757	554	540	475	471	518	1070	4610	3790	1490	874
2	1140	747	712	490	490	481	529	1090	4240	3600	1600	845
3	1260	782	756	460	460	488	536	1260	3910	3370	1560	814
4	1270	799	741	485	480	468	545	1260	3770	3260	1390	790
5	1160	784	661	520	460	464	567	1200	3630	3240	1290	782
6	1020	898	631	555	440	461	640	1230	3450	3190	1290	803
7	901	927	594	590	465	483	771	1210	3210	3150	1250	821
8	844	1120	605	550	480	483	795	1130	3220	3190	1120	825
9	828	1050	663	515	455	488	907	1130	3080	3150	1050	840
10	901	968	711	510	440	489	839	1350	2880	2970	988	816
11	898	996	678	525	470	497	846	1560	2880	2640	937	797
12	867	1110	695	535	440	506	801	1740	3100	2410	965	795
13	829	1070	667	523	460	497	729	2270	2910	2320	951	781
14	899	1010	649	519	435	521	695	2970	2990	2250	951	769
15	1010	934	640	506	415	558	760	3890	3220	2100	909	761
16	965	879	625	473	400	581	1010	4730	3470	1950	984	770
17	895	881	617	460	435	564	1360	4160	3570	1860	1140	[illegible]
18	854	1040	616	440	460	543	1750	3520	3690	1790	977	745
19	839	1010	486	486	435	523	2140	3210	3670	1710	976	733
20	811	888	589	550	415	518	2050	3470	3680	1730	928	730
21	788	838	490	623	405	538	1710	3880	3740	1790	887	765
22	772	783	430	563	430	554	1510	3680	3710	1840	861	842
23	767	742	380	533	420	536	1510	3410	3590	2180	839	825
24	848	757	405	522	450	540	1560	3540	3500	2120	881	837
25	918	784	450	513	470	545	1490	3690	3550	1910	883	823
26	875	769	490	514	490	537	1400	3400	3690	1710	937	793
27	829	690	550	502	468	525	1250	3340	3770	1760	926	773
28	795	740	430	492	459	509	1150	3250	3820	1770	865	752
29	766	696	490	494	462	512	1130	3310	3840	1810	827	739
30	741	595	570	579	---	512	1110	3700	3890	1890	804	735
31	732	---	560	500	---	513	---	4310	---	1680	809	---
TOTAL	28222	26044	18135	16067	13064	15925	32508	82960	106280	74130	32193	23762
MEAN	910	868	585	518	450	514	1084	2676	3543	2391	1038	791
MAX	1270	1120	756	623	490	581	2140	4730	4610	3790	1600	874
MIN	732	595	380	440	400	461	518	1070	2880	1680	804	730
AC-FT	55980	51660	35970	31870	25910	31590	64480	164600	210800	147000	63850	47090

CAL YR 1983	TOTAL	418017	MEAN	1145	MAX	5120	MIN	325	AC-FT 829100
WTR YR 1984	TOTAL	469270	MEAN	1282	MAX	4730	MIN	380	AC-FT 930800

BEST COPY AVAILABLE

13055198 NORTH FORK TETON RIVER AT TETON, ID

LOCATION.--Lat 43°53'53", long 111°40'37", in NW1/4 NW1/4 NW1/4 sec.31, T.7 N., R.41 E., Fremont County, Hydrologic Unit 17040204, on left bank 60 ft upstream from county road bridge, 0.4 mi downstream from point of diversion, 0.5 mi north of Teton, and at mile 16.2.

DRAINAGE AREA.--

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,390 ft, from topographic map.

REMARKS.--Records good except those for winter period which are fair. Flow partially regulated by headworks 0.4 mi upstream. Diversions from tributaries above station for irrigation in Wyoming and Idaho.

AVERAGE DISCHARGE.--[illegible] years, 326 ft3/s, 236,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft3/s May 16, 1984, gage height, 12.81 ft; maximum gage height, 13.63 ft Feb. 10, 1981 (result of ice jam); minimum, 0.90 ft3/s Jan. 5, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,000 ft3/s May 16, gage height, 12.51 ft; minimum daily, 98 ft3/s Dec. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	501	395	136	154	125	118	135	318	1870	1350	613	412
3	550	396	193	140	126	117	136	375	1480	1150	662	380
4	566	411	191	156	127	113	136	394	1430	1100	600	352
5	534	406	171	170	124	116	139	346	1360	1100	539	343
6	490	437	165	185	120	115	156	267	1270	1100	539	347
7	429	459	148	204	122	116	195	246	1140	1090	542	357
8	406	528	156	202	128	114	205	195	1130	1130	485	364
9	396	535	177	195	126	116	223	175	1070	1150	450	363
10	419	509	182	200	124	118	265	237	952	1080	413	365
11	428	513	180	208	128	119	267	312	927	941	409	366
12	415	553	175	210	126	127	244	555	1050	829	450	365
13	401	554	171	198	124	135	198	779	962	779	450	358
14	419	527	164	182	116	137	184	1100	990	759	441	355
15	464	502	163	165	112	133	198	1530	1130	730	472	352
16	458	474	156	142	108	128	262	1890	1300	698	449	345
17	429	469	155	120	116	126	384	1740	1390	675	554	353
18	413	509	152	105	122	121	542	1420	1450	684	480	352
19	406	536	155	116	118	130	701	1220	1430	665	445	343
20	395	433	130	140	116	129	733	1340	1420	668	438	341
21	403	407	120	152	114	128	597	1550	1420	684	425	361
22	408	384	110	145	117	129	517	1480	1410	717	401	384
23	404	362	98	142	115	129	513	1310	1340	869	388	376
24	425	355	112	137	117	129	536	1360	1280	903	409	381
25	461	365	126	135	119	126	513	1460	1270	812	414	376
26	455	370	145	133	116	124	485	1320	1300	714	437	358
27	432	337	172	130	112	125	444	1220	1330	743	441	350
28	423	265	155	127	116	127	353	1180	1370	743	414	342
29	407	180	168	125	115	127	312	1180	1360	759	394	333
30	395	155	178	139	---	130	297	1390	1350	798	381	324
31	392	---	166	131	---	134	---	1690	---	727	380	---
TOTAL	13632	12720	4846	4839	3476	3855	10005	29914	38891	27397	14577	10810
MEAN	440	424	156	156	120	124	334	965	1296	884	470	360
MAX	566	554	193	210	128	137	733	1890	1870	1350	662	412
MIN	392	155	98	105	108	113	135	175	927	665	380	324
AC-FT	27040	25230	9610	9600	6890	7650	19840	59330	77140	54340	28910	21440

CAL YR 1983 TOTAL 146713 MEAN 402 MAX 1630 MIN 45 AC-FT 291000
WTR YR 1984 TOTAL 174962 MEAN 478 MAX 1890 MIN 98 AC-FT 347000

13055319 MOODY CREEK NEAR REXBURG, ID

LOCATION.--Lat 43°46'48", long 111°37'21", in NW1/4 SW1/4 NW1/4 sec.10, T.5 N., R.41 E., Madison County, Hydrologic Unit 17040204, on right bank 11 ft upstream of road bridge, 0.9 mi upstream from Dry Canyon Creek, and approximately 5.5 mi southeast of Rexburg.

DRAINAGE AREA.--

PERIOD OF RECORD.--October 1979 to July 1983, January 1984 to September 1984.

GAGE.--Nonrecording gage, staff and crest-stage gages. Altitude of gage is 5,240 ft, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed discharge, 546 ft3/s May 27, 1983, gage height, 4.70 ft; minimum daily discharge 0.71 ft3/s on many days during 1981.

EXTREMES FOR JANUARY TO SEPTEMBER 1984.--Maximum observed discharge, 532 ft3/s about May 15, gage height, 4.30 ft; minimum daily discharge, 7.5 ft3/s Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				6.1	6.4	7.6	8.0	42	253	54	13	13
2				6.0	6.2	7.7	8.4	45	191	40	13	12
3				6.2	6.5	7.4	8.6	46	167	43	11	9.0
4				6.3	6.4	7.2	8.9	48	150	39	13	9.3
5				6.4	6.6	7.0	10	54	174	36	13	11
6				6.2	6.7	7.3	14	54	173	38	13	12
7				6.2	6.6	7.3	13	47	167	36	13	11
8				6.0	6.4	7.4	13	47	156	33	13	11
9				5.9	6.6	7.6	13	68	150	31	12	11
10				6.1	6.8	7.6	13	132	132	26	11	11
11				6.3	6.4	7.6	13	146	214	25	13	9.3
12				6.2	6.7	7.6	11	180	331	22	12	8.9
13				6.0	7.0	7.6	12	331	232	20	12	12
14				6.1	6.8	7.8	12	391	159	21	11	9.3
15				5.9	6.6	7.5	14	525	174	17	12	11
16				6.2	6.9	7.5	22	458	174	19	14	10
17				6.0	6.8	7.4	37	237	174	15	13	10
18				5.7	6.5	7.4	59	218	159	15	13	9.8
19				6.1	6.5	7.3	77	263	142	16	13	9.3
20				6.0	6.5	7.8	64	356	138	15	14	7.1
21				6.3	6.9	7.7	52	378	125	17	12	9.0
22				6.5	7.2	7.5	55	287	117	22	12	12
23				6.4	7.1	7.4	57	253	99	34	12	11
24				6.7	7.3	7.8	76	312	79	23	12	11
25				7.0	7.5	7.6	74	214	84	17	12	10
26				6.4	7.3	7.6	60	224	84	17	17	9.8
27				6.6	7.2	7.5	50	224	76	17	13	9.3
28				6.6	7.3	7.8	45	210	70	17	12	9.8
29				6.5	7.4	8.0	44	217	64	18	12	6.7
30				6.4	---	7.8	39	250	58	18	10	7.5
31				6.5	---	8.0	---	337	---	13	12	---
TOTAL				193.8	197.1	234.3	982.9	6596	4492	752	388	302.6
MEAN				6.25	6.80	7.56	32.8	213	150	25.2	12.5	10.1
MAX				7.0	7.5	8.0	77	525	331	54	17	13
MIN				5.7	6.2	7.0	8.0	42	58	13	10	6.7
AC-FT				384	391	465	1950	13080	8910	1550	770	600

13055340 SOUTH FORK TETON RIVER AT REXBURG, ID

LOCATION.--Lat 43°50'07", long 111°46'38", SW1/4 SW1/4 NW1/4, sec.20, T.6 N., R.40 E. Madison County, Hydrologic Unit 17040204, on left bank at upstream side of bridge on U.S. 20, 0.6 mi north of Rexburg, and at mile 19.1.

DRAINAGE AREA.--

PERIOD OF RECORD.--November 1981 to current year (fragmentary).

GAGE.--Nonrecording gage. Altitude of gage is 4,860 ft, from topographic map.

REMARKS.--Records fair. Diversions above station used for irrigation above and below gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 3,410 ft3/s May 16, 1984, gage height, 7.27 ft; minimum observed, 11 ft3/s Nov. 3, 1981, gage height, 1.94 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 3,410 ft3/s, May 16, gage height, 7.27 ft; minimum observed, 76 ft3/s, Sept. 20, 21, gage height, 1.15 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
DAILY VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	---	---	---	---	---	---	---	3370	---	399	118
2	---	157	313	---	---	---	---	518	---	1720	444	---
3	135	---	---	---	---	---	---	---	---	1490	427	118
4	---	175	---	225	---	---	---	563	2390	1350	313	111
5	321	---	---	---	---	---	---	---	---	1320	---	103
6	---	---	316	---	---	---	---	---	---	1290	207	117
7	---	---	---	---	---	---	---	579	---	1240	227	124
8	---	200	319	---	---	---	---	---	1890	---	199	129
9	---	---	---	---	---	---	---	399	---	1300	161	---
10	171	---	---	260	---	---	---	---	---	1120	132	129
11	---	---	---	---	---	---	---	559	1950	925	113	141
12	185	---	---	---	---	---	---	---	---	719	---	135
13	---	---	---	---	---	---	---	---	1750	649	114	128
14	---	---	313	---	---	---	246	1700	---	635	108	128
15	---	---	---	---	---	---	---	---	1820	---	103	125
16	---	215	---	---	---	235	---	3410	---	302	117	---
17	193	---	---	---	---	---	---	---	---	273	229	106
18	---	---	---	---	---	---	---	2630	2420	205	---	92
19	177	---	---	---	---	---	---	---	---	185	149	78
20	---	---	324	---	---	---	---	---	2510	227	139	76
21	159	225	---	---	---	235	---	2610	---	240	139	76
22	---	---	---	---	---	---	---	---	---	---	137	111
23	---	---	---	---	---	---	---	2250	---	542	108	---
24	---	---	---	---	---	---	---	---	---	567	121	139
25	229	---	---	---	---	---	---	2210	1760	645	155	139
26	---	---	---	---	---	---	---	---	1690	468	---	149
27	209	---	---	---	---	248	---	---	1730	509	---	129
28	---	210	220	---	205	---	---	1920	1730	534	---	115
29	---	---	---	---	---	---	---	---	1770	---	---	129
30	---	---	---	---	---	---	---	1970	1580	559	---	---
31	151	---	---	---	---	---	---	---	---	522	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---
AC-FT	---	---	---	---	---	---	---	---	---	---	---	---

13056500 HENRYS FORK NEAR REXBURG, ID

LOCATION.--Lat 43°49'34", long 111°54'15", in NW1/4 NE1/4 sec.30, T.6 N., R.39 E., Madison County, Hydrologic unit 17040203, on right bank 200 ft downstream from highway bridge, 6 mi west of Rexburg, and at mile 9.2.

DRAINAGE AREA.--2,920 mi2, approximately.

PERIOD OF RECORD.--April 1909 to current year. Monthly discharge only for some periods, published in WSP 1317. Prior to 1911, published as "North Fork of Snake River near Rexburg."

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,806.35 ft National Geodetic Vertical Datum of 1929. Apr. 13, 1909, to Sept. 28, 1912, nonrecording gage at datum 0.67 ft higher. Sept. 29, 1912, to Apr. 4, 1913, nonrecording gage at present datum.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by operation of powerplant near Ashton, and by Henrys Lake (see sta 13039000), Island Park Reservoir, and Grassy Lake. Diversions above station for irrigation of about 5,000 acres below and about 204,000 acres above station of which about 21,000 acres are by withdrawals from ground water (1966 determination). Considerable water leaks above station into the Snake Plain aquifer. Station is downstream from all tributaries except inflow from ground water and irrigation waste.

AVERAGE DISCHARGE.--75 years, 2,088 ft3/s, 1,513,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 79,000 ft3/s June 5, 1976; maximum gage height, 22.36 ft June 5, 1976, result of Teton Dam failure; maximum discharge excluding 1976, 16,400 ft3/s May 17, 1984, gage height, 12.05 ft from high-water mark in gage well; minimum, 183 ft3/s Mar. 24-28, 1934, gage height, 1.45 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,400 ft3/s May 17, gage height, 12.05 ft from high-water mark in gage well; minimum daily, 1,700 ft3/s Dec. 23.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 23 to Mar. 2;
shifting-control method used June 21 to Aug. 12)

5.00	1830	9.00	7210
6.00	2730	10.0	9500
7.00	3890	11.0	12500
8.00	5370	12.0	16200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3730	2630	2870	2530	2650	2600	2340	3990	11100	7470	5290	3110
2	3980	2720	3010	2490	2530	2500	2440	4000	11100	7250	5030	3140
3	4340	2750	3120	2430	2680	2470	2340	4200	10000	6650	5020	3060
4	4230	2700	3000	2440	2610	2370	2440	4350	9540	6290	4510	2930
5	3530	2720	3130	2410	2740	2300	2450	4380	9650	6090	4520	2840
6	2940	3030	3010	2460	2850	2260	2580	4600	10200	5910	4400	2370
7	2780	3210	2940	2520	2750	2250	2660	4420	10300	5360	4320	2960
8	2900	3500	3000	2600	2760	1990	2610	4060	10600	5770	4210	2990
9	2600	3470	3030	2650	2740	1930	2350	4360	11200	5820	3940	2950
10	2680	3310	3130	2300	2640	1940	2350	4600	10700	5510	3760	2940
11	2800	3400	3210	2390	2600	1970	2500	5330	10200	5230	3710	2840
12	2880	3690	3060	2320	2720	2020	2420	6050	10600	4730	3640	2750
13	2780	3700	2970	2270	2700	2030	2330	6800	10700	4280	3800	2650
14	2800	3550	2800	2220	2670	2360	2230	8320	9960	3970	3900	2600
15	3070	3190	2790	2260	2610	2430	2210	10900	9820	3540	3930	2510
16	3300	3170	2740	2300	2600	2620	2410	12400	9880	3620	4080	2390
17	3170	3320	2730	2350	2730	2480	2870	15100	10000	3280	4640	2330
18	3000	3300	2650	2130	2780	2540	3420	13200	10000	3170	4790	2240
19	2900	3120	2510	2070	2680	2400	4130	11600	10000	3170	4660	2130
20	2830	2910	2810	2140	2640	2370	4970	11800	9600	3300	4550	2120
21	2760	2930	2160	2240	2780	2430	5030	12800	9310	3650	4490	2190
22	2730	2740	1740	2300	2870	2450	4490	13400	9030	4640	4020	2570
23	2720	2650	1700	2400	2800	2430	4430	12400	8710	5500	2940	2740
24	2900	2360	1840	2300	2750	2420	4720	12000	8180	6130	2900	2730
25	3140	2890	2190	2440	2700	2460	4920	12800	7770	6000	3050	2740
26	2940	2950	2320	2530	2680	2520	4930	12000	7540	5310	3290	2960
27	2830	2880	2550	2650	2680	2420	4490	11100	7540	5020	3330	2610
28	2790	2850	2400	2500	2660	2370	4150	10600	7560	5120	3240	2620
29	2750	2760	2280	2580	2640	2350	4160	10200	7470	5460	3200	2490
30	2710	2700	2390	2660	---	2350	4140	9950	7410	5710	3080	2420
31	2680	---	2480	2720	---	2360	---	9910	---	5460	3030	---
TOTAL	94190	91080	82550	74420	78320	72390	99930	271450	285720	159120	123570	80460
MEAN	3038	3036	2663	2401	2701	2335	3331	8756	9524	5133	3986	2682
MAX	4340	3700	3210	2720	2870	2620	5030	15100	11200	7470	5290	3140
MIN	2600	2360	1700	2070	2580	1930	2210	3990	7410	3170	2900	2120
AC-FT	186800	180700	163700	147600	155300	143600	198200	538400	566700	315600	245100	159600

CAL YR 1983 TOTAL 1272390 MEAN 3487 MAX 11200 MIN 1700 AC-FT 2525000
WTR YR 1984 TOTAL 1513200 MEAN 4134 MAX 15100 MIN 1700 AC-FT 3001000

13057160 SNAKE RIVER NEAR IDAHO FALLS, ID

LOCATION.--Lat 43°35'21", long 112°03'29", in NE1/4 NW1/4 SW1/4 sec.13, T.3 N., R.37 E., Bonneville County, Hydrologic Unit 17040201, on right bank 2.5 mi upstream of Idaho Falls Municipal Power Plant, 5.5 mi north of Idaho Falls, and at mile 803.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--November 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,745.66 ft, National Geodetic Vertical Datum of 1929 (levels by U.S. Geological Survey). November 1982 to September 1983 at datum 27.63 ft lower. Since April 1984, auxiliary water-stage recorder approximately 2 mi downstream from base gage at head of island.

REMARKS.--Records poor except those for summer periods, which are fair (most of summer period rated fair). Some regulation by Jackson Lake, Palisades Reservoir, Island Park Reservoir, Henrys Lake, and Grassy Lake. Diversions above station for irrigation of about 700,000 acres. Considerable water leaks above station into the Snake Plain aquifer.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 28,900 ft3/s May 16, 1984, maximum gage height, 12.49 ft Feb. 8, 1983 (ice jam); minimum daily discharge, 3,700 ft3/s Mar. 19, 1983, minimum gage height, 34.47 ft Oct. 14, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 28,900 ft3/s May 16, maximum gage height, 40.12 ft Dec. 21 (ice jam); minimum daily discharge, 4,220 ft3/s Mar. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5100	6100	7590	8500	8850	4590	10700	18000	25100	22800	12100	7060
2	5340	6100	7700	8300	8800	4500	8280	18900	27200	22400	11000	7060
3	5910	6150	8240	7900	8500	4450	10000	19300	27100	21500	10800	7040
4	6490	6100	8390	8200	7200	4400	10600	19400	25100	20800	10400	6970
5	5910	6360	8240	8400	6500	4360	10700	19400	24200	20500	9770	6590
6	5780	6860	8540	8500	6300	4340	10700	19600	26700	20200	8990	6710
7	5130	6950	8580	8350	6100	4300	12200	19400	28500	20500	7500	6750
8	4920	7800	8800	8660	6000	4280	13000	18100	27900	21000	7220	6770
9	4740	8000	8900	8700	5900	4220	12900	11800	27500	20200	7080	7490
10	4740	8300	9050	8550	5800	4240	12500	18500	28200	20200	7130	7340
11	4820	8500	9300	8540	5750	4260	12400	19600	28000	18400	6790	7040
12	4980	8600	9200	8540	5500	4280	12400	20700	26900	18100	6790	7040
13	4820	8650	9090	8510	5250	4440	13700	21600	25100	15800	7210	7000
14	5030	8800	8700	8350	4800	4800	14200	23000	24600	15700	6960	6850
15	5500	8700	8550	8400	4750	5050	14000	25800	23500	15900	7260	6800
16	5900	8650	8660	8450	4700	5000	14300	28900	23000	15100	7820	6700
17	6700	8750	8540	7800	4750	4950	14900	28200	22900	14300	7770	6650
18	7180	8800	8280	7400	4700	4900	15900	26600	24200	12400	7940	6500
19	7460	8600	8000	7600	4650	4900	16900	24200	25200	12000	8110	6450
20	7680	8550	7900	7650	4600	4800	18100	23400	24700	10200	8230	6500
21	7900	8400	7700	8200	4700	4700	18400	24300	23200	8230	7860	6600
22	7560	8500	7400	8300	4700	6000	18000	26600	23000	7950	7960	6900
23	7370	8510	7300	8500	4550	7300	17500	23600	23200	9740	7110	7400
24	7560	8810	7700	8600	4600	7820	17800	22600	23600	12800	6720	7990
25	8100	9000	8100	8700	4500	8010	18200	22400	23400	15000	6860	9200
26	9800	9050	8300	8800	4450	10700	17900	21200	22800	14200	7260	10000
27	10100	8200	8600	8800	4450	10600	17300	20500	22300	11000	7420	10500
28	9800	8130	8500	8900	4400	10600	16800	20000	23600	10300	7270	10000
29	8650	8200	8400	8900	4360	10700	16900	20600	22500	10700	7280	10000
30	6920	7440	8500	8900	---	10700	17100	22100	23100	12200	7300	9800
31	6150	---	8600	8850	---	10800	---	23800	---	12000	6990	---
TOTAL	204040	239560	259380	260750	160110	188990	434280	672100	746600	482120	246900	225590
MEAN	6582	7985	8367	8411	5521	6096	14480	21680	24890	15550	7965	7520
MAX	10100	9050	9300	8900	8850	10800	18400	28900	28800	22800	12100	10500
MIN	4740	6100	7300	7400	4360	4220	8280	11800	22300	7950	6720	6450
AC-FT	404700	475200	514500	517200	317600	374900	861400	1333000	1481000	956300	489700	447500

CAL YR 1983 TOTAL 3571450 MEAN 9785 MAX 27800 MIN 3700 AC-FT 7084000
WTR YR 1984 TOTAL 4120420 MEAN 11260 MAX 28900 MIN 4220 AC-FT 8173000

Note.--No gage-height record Oct. 15-20, 25-29, Oct. 31 to Nov. 4, Nov. 9-22, Dec. 8-12, Jan. 9, 10, Jan. 14 to Feb. 28, Mar. 9-23, Mar. 26 to Apr. 1, May 13-19, 23-31, June 22-28, Sept. 13-30.

13060000 SNAKE RIVER NEAR SHELLEY, ID

LOCATION.--Lat 43°24'47", long 112°08'02", in SE1/4 SW1/4 sec.17, T.1 N., R.37 E., Bingham County, Hydrologic Unit 17040201, on right bank 0.3 mi southeast of Woodville, 2.5 mi north of Shelley, and at mile 787.8.

DRAINAGE AREA.--9,790 mi2, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--March 1915 to current year (prior to October 1931, irrigation seasons only).

REVISED RECORDS.--WSP 1317: 1916.

GAGE.--Water-stage recorder. Datum of gage is 4,599.0 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Some regulation by Jackson Lake, Palisades Reservoir, Island Park Reservoir, Henrys Lake (see sta 13039000), and Grassy Lake. Diversions above station for irrigation of about 39,000 acres below and about 637,000 acres above station of which about 100,000 acres are by withdrawals from ground water (1966 determination). Considerable water leaks above station into Snake Plain aquifer.

AVERAGE DISCHARGE.--53 years (1932-84), 5,848 ft3/s, 4,237,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,300 ft3/s June 6, 1976, gage height, 19.12 ft, result of Teton Dam failure; maximum discharge excluding 1976, 47,200 ft3/s June 17, 1918, gage height, 16.97 ft; minimum, 288 ft3/s Nov. 5, 1934, gage height, 2.22 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 6, 1894, reached an estimated discharge of 75,000 ft3/s at former station at Eagle Rock (now Idaho Falls), 7 mi upstream from present site.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,000 ft3/s June 13, gage height, 12.97 ft; minimum daily 4,140 ft3/s Mar. 9.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 17-22, Jan. 26-30;
shifting-control method used Apr. 20 to July 3)

6.0	3540	10.0	17200
7.0	6350	11.0	21600
8.0	9650	12.0	26200
9.0	13300	13.0	31200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4900	6150	7060	8150	8750	4350	10500	17200	24200	20000	11700	7350
2	5250	6100	7530	7800	8600	4500	8300	17500	25400	19900	10900	7340
3	5700	6150	8360	7350	8300	4450	9250	18100	25300	19500	10600	7290
4	6350	6100	8740	7850	6800	4400	10600	18300	24500	19000	10200	7040
5	5820	6050	8470	8250	6300	4350	10800	18300	24100	18500	9640	6500
6	5600	6650	8470	8350	6100	4300	10900	18400	25100	18100	9060	6210
7	5050	7400	8670	8450	5900	4250	11200	18200	26500	18300	7740	6430
8	4880	7700	8700	8400	5800	4250	12500	17800	26700	18500	7150	6850
9	4700	7830	8750	8350	5800	4140	12700	11500	26600	18300	6700	8100
10	4650	8130	8800	8300	5750	4160	12700	16300	26700	17800	6610	8100
11	4740	8260	9000	8350	5700	4180	12700	18300	27000	17100	6560	7860
12	4900	8360	9200	8150	5450	4200	12600	19000	26900	16100	6620	8020
13	4800	8500	9160	8100	5000	4300	12800	19800	25500	14200	6640	7700
14	5000	8670	9030	8050	4750	4750	13600	21000	23900	13700	6780	7420
15	5480	8670	8960	8100	4700	5320	13600	21700	22600	13700	6530	6900
16	5800	8470	8840	8000	4700	5300	13800	22800	22100	13800	6930	6700
17	6520	8430	8650	7850	4750	5150	14200	29200	22000	12900	7800	6600
18	7000	8400	8500	7150	4600	5000	15100	28300	22700	12000	8370	6460
19	7350	8090	8250	7350	4700	4900	16400	25700	23200	11700	8480	6250
20	7550	8190	8000	8050	4550	4810	17300	23600	22800	10400	8450	6340
21	7600	8190	7650	8100	4400	4750	17700	23500	21900	9140	8340	6400
22	7480	8360	7050	8150	4450	5500	17500	24200	21100	8860	8170	6920
23	7350	8430	7150	8300	4350	7220	17000	23600	20400	10600	7540	7580
24	7400	8540	7550	8400	4500	7700	17400	22000	20400	12700	6710	8090
25	7750	8770	8150	8450	4350	7790	17800	21100	20900	14000	6680	9100
26	9650	8800	8250	8950	4400	9880	17600	20900	20200	12800	7390	9350
27	10000	8430	8350	8750	4360	10400	17500	20100	19700	11100	7580	10600
28	9750	8090	8250	9100	4300	10400	17500	19200	19800	10500	7580	9960
29	8450	7960	8200	8800	4300	10500	17700	19000	21100	10700	7490	9980
30	6550	7370	8250	8600	---	10500	17600	20500	21100	11500	7420	9630
31	5950	---	8350	8500	---	10500	---	22300	---	11800	7230	---
TOTAL	199970	235240	258340	254500	156410	186200	426830	637400	700400	447200	245590	229570
MEAN	6451	7841	8334	8210	5393	6006	14230	20560	23350	14430	7922	7652
MAX	10000	8800	9200	9100	8750	10500	17800	29200	27000	20000	11700	10600
MIN	4650	6050	7050	7150	4300	4140	8300	11500	19700	8860	6530	6210
AC-FT	396600	466600	512400	504800	310200	369300	846700	1264000	1389000	887000	487100	455400

CAL YR 1983	TOTAL	3572290	MEAN	9787	MAX	26300	MIN	3210	AC-FT	7086000
WTR YR 1984	TOTAL	3977670	MEAN	10870	MAX	29200	MIN	4140	AC-FT	7890000

Note.--No gage-height record Oct. 1 to Nov. 7, Dec. 8-12, Dec. 23 to Jan. 25, Jan. 31 to Mar. 19, Apr. 8-12, Sept. 25-28.

13062500 SNAKE RIVER AT BLACKFOOT, ID

LOCATION.--Lat 43°11'50", long 112°22'05", in SE1/4 SW1/4 sec.33, T.2 S., R.35 E., Bingham County, Hydrologic Unit 17040206, on left bank immediately upstream from old Riverside Highway bridge, 0.25 mi downstream from new U.S. Highway 26 bridges, 1.2 mi west of Blackfoot, and at mile 754.3.

DRAINAGE AREA.--9,950 mi2.

PERIOD OF RECORD.--August 1978 to current year. Records for May 1924 to September 1932 at site downstream, published as "Snake River below Blackfoot Bridge, near Blackfoot," are not equivalent because diversions were not included.

GAGE.--Water-stage recorder. Altitude of gage is 4,490 ft, from topographic map. May 1924 to September 1932, water-stage recorder at site downstream at different datum.

REMARKS.--Records good. Flow regulated by Jackson Lake, Palisades Reservoir, Henrys Lake (see sta 13039000), Island Park Reservoir, and Grassy Lake, having a combined capacity of 2,570,000 acre-ft. Diversions above station for irrigation of about 750,000 acres. Considerable water leaks above the station into the Snake Plain aquifer.

AVERAGE DISCHARGE.--6 years (1979-84), 6,301 ft3/s, 4,565,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,600 ft3/s May 18, 1984, gage height, 10.18 ft; minimum observed, 92 ft3/s Oct. 2, 1981, but may have been lower during period of no gage-height record Oct. 3-21.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,600 ft3/s May 18, gage height, 10.18 ft; minimum discharge, 2,960 ft3/s Mar. 2, gage height, 4.53 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Mar. 12 to Apr. 4, Aug. 6 to Sept. 30; stage-discharge relation
affected by ice Dec. 16, Dec. 19 to Jan. 27, Feb. 3-9, Feb. 21-23)

4.0	1660	7.0	11900
5.0	4320	8.0	16700
6.0	7830	9.0	21900
		10.0	27500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4170	5990	7280	7950	8580	4000	9780	16400	22400	18900	11000	5620
2	4690	5970	7420	7650	8460	3990	8360	17000	23700	18900	10300	5690
3	5150	6120	8160	7300	7800	4110	7970	17700	24300	18400	9800	5620
4	5880	6030	8820	7750	6600	4020	9770	17900	23800	17900	9320	5450
5	5350	6020	8580	7900	6200	3940	10100	18000	23100	17200	8650	5210
6	5180	6690	8430	8100	6000	3860	10100	18000	24100	16600	9210	4950
7	4720	7550	8770	8150	5700	3850	10700	18000	25600	16500	5940	4950
8	4660	7750	8730	9200	5600	3870	12000	17700	26700	16700	5970	5340
9	4510	7850	8750	9050	5700	3770	12200	13000	26600	16600	5620	5440
10	4490	8110	8780	9000	5730	3720	12100	15400	26700	16100	5180	4560
11	4550	8350	9000	9000	5650	3750	12100	17300	27200	15400	4950	6370
12	4870	8370	9210	7950	5070	3780	12000	18600	27100	14500	4950	6450
13	4930	8520	9180	7900	4350	3810	12500	19500	26400	12700	4980	6150
14	4930	8650	9110	7950	4300	3990	13700	20400	24700	12000	5010	5690
15	5150	8810	8990	7900	4170	4590	13800	22000	23300	12000	4950	5270
16	5400	8750	8850	9050	4260	4780	13900	25200	22400	12100	5030	4970
17	6290	8620	8700	7650	4250	4780	14000	27600	22300	11300	5970	4560
18	6520	8650	8500	6950	4040	4620	14700	28300	22300	10300	6760	4670
19	6820	8260	8350	7200	4150	4620	15800	26400	22800	9900	7010	4520
20	7060	8280	8050	7500	4050	4490	16600	26100	22400	9180	7010	4550
21	7050	8240	7550	7800	3810	4340	17300	23300	21300	7780	6940	4600
22	7030	8330	6500	8000	3850	4780	17300	23500	20500	7390	6760	5130
23	6970	8590	7050	8100	3800	6010	16900	23400	19700	9060	6250	5750
24	7100	8590	7400	9200	4050	6630	16700	21900	19500	10900	6380	6550
25	7560	8800	7700	9300	3940	6990	17100	20700	19900	12400	5680	7720
26	9310	8890	8100	8350	3980	8320	17200	20400	19200	12100	5690	9110
27	9510	8730	8150	8400	3960	9290	16900	19800	18600	10300	6000	9120
28	9370	8300	8100	9870	3940	9360	16400	18800	18300	9650	5930	8970
29	7580	8150	8000	8700	3940	9440	16200	18000	19600	9840	5900	8660
30	6120	7800	8050	9550	---	9560	16200	18900	19900	10600	5690	8540
31	5940	---	8150	9560	---	9670	---	20500	---	11000	5550	---
TOTAL	188870	237780	256410	247830	145960	166920	410750	628200	684400	404030	202860	182970
MEAN	6093	7926	8271	7995	5033	5385	13690	20260	22810	13030	6544	6099
MAX	9510	8890	9210	9870	8580	9670	17300	28300	27200	18900	11000	9120
MIN	4170	5970	6500	6950	3800	3720	7970	13000	18300	7390	4950	4520
AC-FT	374600	471600	508600	491600	289500	331100	814800	1246000	1358000	801400	402400	362900

CAL YR 1983 TOTAL 3231700 MEAN 8854 MAX 25400 MIN 1510 AC-FT 6410000
WTR YR 1984 TOTAL 3757020 MEAN 10270 MAX 28300 MIN 3720 AC-FT 7452000

13065000 BLACKFOOT RESERVOIR NEAR HENRY, ID

LOCATION.--Lat 43°00'20", long 111°43'00", in sec.12, T.5 S., R.40 E., Caribou County, Hydrologic Unit 17040207, Bureau of Land Management lands, near spillway at right end of Blackfoot Dam on Blackfoot River, 12 mi northwest of Henry, and at mile 69.0.

DRAINAGE AREA.--581 mi2.

PERIOD OF RECORD.--January 1912 to September 1925, January 1929 to current year (no winter records 1949-59). Monthend contents only for January 1929 to September 1960, published in WSP 1317, 1737. Prior to October 1950 and October 1960 to September 1961, published as "Blackfoot-Marsh Reservoir near Henry."

GAGE.--Nonrecording gage. Datum of gage is 6,100 ft National Geodetic Vertical Datum of 1929 (levels by Indian Field Service).

REMARKS.--Water diverted from reservoir for irrigation of about 50,000 acres near Pocatello and on Fort Hall Indian Reservation. Capacity is 313,000 acre-ft between elevations 6,086 ft bottom of outlet tunnel and 6,115.5 ft, crest of spillway, with provision for additional storage by water from Grays Lake beginning May 1924. Storage began in spring of 1910.

COOPERATION.--Capacity table, gage readings, and daily contents furnished by Bureau of Indian Affairs.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 353,200 acre-ft June 12, 1984 (elevation, 6,120.75 ft); minimum observed, 610 acre-ft Sept. 12-15, 19, 21, 22, 1934; minimum elevation observed, 6,088.59 ft Sept. 22, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 353,200 acre-ft June 12, elevation, 6,120.75 ft; minimum observed, 241,100 acre-ft Jan. 18, Apr. 9, elevation, 6,114.22 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

6,112	205,400	6,118	304,700
6,114	237,500	6,120	339,800
6,116	270,600	6,121	357,700

CONTENTS (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	258400	---	---	241600	---	---	---	309700	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	343200	---	---
4	---	---	---	253600	---	---	---	---	---	---	---	278100
5	---	---	---	---	---	---	---	266800	344600	---	---	277200
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	299900	---
8	---	280500	---	---	---	---	---	---	---	---	---	---
9	---	---	---	249200	---	---	241100	277100	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	286200	353200	---	---	---
13	---	---	---	---	---	---	---	---	---	---	291700	---
14	---	---	---	---	---	---	---	293800	---	334000	---	---
15	---	---	---	---	---	---	242100	---	---	---	---	---
16	---	---	274900	---	---	---	---	303700	---	---	---	---
17	---	---	---	---	---	---	---	---	---	328300	---	---
18	---	---	---	241100	---	---	---	313800	---	---	---	---
19	---	---	---	---	---	---	---	---	---	325100	---	---
20	---	---	---	---	---	---	---	320100	353000	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	283300	---
24	---	---	---	---	---	---	---	---	---	317500	---	---
25	---	---	265800	---	---	---	250600	---	---	---	---	---
26	---	---	---	---	241700	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	241700	---	---	336600	---	---	---	---
30	---	277300	---	---	---	---	258600	337000	345500	---	---	276800
31	280500	---	259500	241300	---	241600	---	338300	---	309800	279800	---
(†)	---	---	---	---	---	---	6115.28	---	---	---	---	---
(‡)	-100	-3200	-17800	-18200	+400	-100	+17000	+79700	+7200	-35700	-30000	-3000

CAL YR 1983............‡ -27900
WTR YR 1984............‡ -3800

†Elevation, in feet, at end of month.
‡Change in contents, in acre-feet.

Note.--Most month-end contents are interpolated values.

13065940 WOLVERINE CREEK NEAR GOSHEN, ID

LOCATION.--Lat 43°15'02", long 112°00'57", in NW1/4 NW1/4 sec.10, T.2 S., R.38 E., Bingham County, Hydrologic Unit 17040207, on left bank 50 ft upstream from county road crossing, 1 mi upstream from Blackfoot River, and 10 mi southeast of Shelley.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Miscellaneous measurements only during 1973, 1975-76, October 1979 to July 1983, Janurry to September 1984.

GAGE.--Nonrecording gage, staff and crest-stage gage. Altitude of gage is 4,800 ft, from topographic map.

REMARKS.--Records poor. Diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 218 ft3/s June 4, 1983, gage height, 2.41 ft; minimum observed, 0.89 ft3/s July 31, 1980, gage height, 0.24 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, January to September, 189 ft3/s May 16, gage height, 4.80 ft; minimum, 8.1 ft3/s Jan. 17, 18, gage height, 0.70 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				11	11	11	13	49	108	30	24	20
2				8.8	10	10	14	55	88	30	25	20
3				10	11	10	14	70	74	30	26	20
4				10	11	9.7	14	70	84	30	26	20
5				9.4	11	9.7	14	70	78	30	26	20
6				9.4	11	9.7	15	66	72	28	26	20
7				10	11	9.7	15	69	66	28	26	18
8				10	12	10	15	63	62	29	26	18
9				10	12	10	16	63	58	29	26	19
10				9.7	11	10	17	72	72	30	28	20
11				10	11	10	18	78	96	30	28	20
12				11	10	11	17	93	86	30	27	21
13				10	10	12	17	108	76	30	27	21
14				11	10	12	19	131	68	30	26	19
15				9.4	10	12	18	181	56	30	25	18
16				9.4	10	12	20	187	50	30	24	18
17				8.1	10	12	20	146	64	29	24	18
18				8.1	11	12	20	153	56	28	24	18
19				8.8	11	12	20	186	53	27	22	18
20				9.4	11	12	20	186	50	27	20	18
21				9.7	12	12	20	142	46	28	20	16
22				10	12	12	45	122	41	28	20	17
23				10	12	12	45	133	37	28	20	16
24				11	11	12	45	110	42	26	22	16
25				11	11	12	45	120	45	24	21	15
26				10	11	12	49	130	39	22	21	15
27				10	11	12	49	114	35	23	20	16
28				10	10	12	52	100	34	23	20	15
29				10	11	12	52	112	32	22	21	15
30				11	---	13	52	138	31	23	20	15
31				11	---	13	---	116	---	24	19	---
TOTAL				307.2	316	350.8	789	3435	1799	856	730	542
MEAN				9.91	10.9	11.3	26.3	111	60.0	27.6	23.5	18.1
MAX				11	12	13	52	187	108	30	28	21
MIN				8.1	10	9.7	13	49	31	22	19	15
AC-FT				609	627	696	1560	6810	3570	1700	1450	1080

13066000 BLACKFOOT RIVER NEAR SHELLEY, ID

LOCATION.--Lat 43°15'46", long 112°02'48", in NW1/4 SW1/4 NE1/4 sec.7, T.2 S., R.35 E., Bingham County, Hydrologic Unit 17040207, on right bank 1.2 mi downstream from Wolverine Creek, 8.5 mi southeast of Shelley, and at mile 30.5.

DRAINAGE AREA.--909 mi2.

PERIOD OF RECORD.--July 1909 to November 1926, May 1926 to September 1950 (irrigation seasons only), August 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,630 ft, from topographic map. Prior to Aug. 19, 1975, at nearby site at different datum.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Blackfoot Reservoir (station 13065000) 38.5 mi upstream. Water diverted from reservoir and several other diversions upstream for irrigation.

AVERAGE DISCHARGE.--26 years (1910-26, 1976-84), 379 ft3/s, 274,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,080 ft3/s May 15, 1984, gage height, 8.59 ft; maximum gage height, 19.97 ft Nov. 29, 1975 (backwater from ice); minimum observed discharge, 15 ft3/s Jan. 23, 1919, gage height, 2.83 ft, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,080 ft3/s May 15, gage height, 8.59 ft, maximum gage height, 12.67 ft Jan. 21 (backwater from ice); minimum daily, 195 ft3/s Feb. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	381	467	500	914	280	295	408	674	1690	1670	1210	583
2	355	469	539	914	270	290	411	1080	1670	1620	1200	584
3	340	463	615	909	280	278	412	1150	1700	1420	1190	581
4	337	458	635	907	290	273	421	1140	1720	1410	1180	577
5	332	474	640	910	295	270	430	1140	1810	1400	1190	580
6	332	472	641	908	275	270	443	1080	1810	1330	1180	585
7	331	479	630	904	280	273	442	1040	1810	1270	1160	591
8	366	471	632	903	290	273	44[illegible]	1070	1810	1240	1150	593
9	373	457	629	901	280	275	446	1140	1760	1200	1150	585
10	375	461	636	898	275	282	434	1290	1810	1180	1150	531
11	375	511	630	899	270	297	430	1250	1870	1180	1150	453
12	368	504	636	895	290	287	430	1290	1840	1210	1160	443
13	368	509	631	897	285	296	433	1460	1830	1240	1150	443
14	392	472	632	895	280	454	444	1640	1830	1350	1150	440
15	393	464	631	892	270	440	469	1970	1900	1340	1120	453
16	376	467	655	920	230	425	499	1840	1950	1320	959	453
17	370	485	901	930	210	403	538	1780	1960	1330	939	443
18	396	487	909	930	205	397	589	1650	1960	1350	929	440
19	397	542	906	910	200	395	653	1620	2010	1360	922	443
20	399	540	908	760	195	390	678	1640	2000	1340	912	443
21	398	538	910	610	205	395	625	1620	1970	1360	726	453
22	394	531	912	600	210	399	664	1560	1940	1380	720	459
23	395	543	910	585	205	399	720	1480	1930	1390	723	459
24	403	542	910	600	215	400	737	1640	1910	1370	726	453
25	400	539	912	605	220	399	705	1630	1910	1360	730	443
26	395	519	912	580	210	400	671	1630	1890	1360	735	433
27	398	530	911	595	205	390	612	1580	1870	1360	713	427
28	401	543	912	600	280	390	627	1530	1850	1390	595	427
29	461	536	914	580	300	394	650	1570	1820	1400	594	433
30	460	506	913	560	---	403	623	1720	1670	1360	593	433
31	468	---	913	360	---	407	---	1730	---	1320	592	---
TOTAL	11929	14982	23565	24271	7300	10932	16126	44664	55550	41810	29591	14637
MEAN	385	499	760	783	252	353	538	1441	1852	1349	955	490
MAX	468	543	914	930	300	454	737	1970	2010	1670	1210	593
MIN	331	457	500	360	195	270	408	674	1670	1180	592	427
AC-FT	23660	29720	46740	48140	14480	21680	31990	88590	110200	82930	58690	29130

CAL YR 1983	TOTAL	255001	MEAN	699	MAX	1990	MIN	132	AC-FT 505800
WTR YR 1984	TOTAL	295407	MEAN	807	MAX	2010	MIN	195	AC-FT 585900

Note.--No gage-height record Feb. 5-11.

13068495 BLACKFOOT RIVER BYPASS NEAR BLACKFOOT, ID

LOCATION.--Lat 43°10'16", long 112°23'13", in SE1/4 SW1/4 sec.8, T.3 S., R.35 E., Bingham County, Hydrologic unit 17040207, on right bank at flood diversion structure about 400 ft downstream from Interstate 15 bridges, and 2.5 mi southwest of Blackfoot.

DRAINAGE AREA.--

PERIOD OF RECORD.--April 1964 to current year. (Prior to 1975, only combined monthly flows of main river and of bypass channel were published.)

GAGE.--Water-stage recorder. Datum of gage is 4,469.0 ft National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records fair except those for winter periods, which are poor. Flow regulated by Blackfoot Reservoir (see sta 13065000). Diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,560 ft3/s May 5, 1974, gage height, 8.69 ft; no flow for many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,350 ft3/s May 18, gage height, 6.60 ft; minimum discharge, 5.5 ft3/s Feb. 28, gage height 3.55 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	353	490	330	605	240	37	234	425	790	470	955	133
2	283	480	339	600	222	137	234	499	836	460	850	142
3	247	493	384	595	214	147	234	594	799	400	720	145
4	246	483	438	600	230	146	230	763	805	340	540	134
5	240	485	356	605	238	145	233	853	841	340	610	110
6	226	500	379	600	240	145	241	877	1040	260	605	112
7	209	502	416	600	220	145	245	869	1140	250	595	126
8	177	453	439	600	224	147	245	938	1160	260	620	135
9	148	547	450	605	232	148	245	929	1140	260	638	145
10	152	544	468	610	222	148	245	956	1160	235	660	150
11	199	529	471	620	220	148	241	1100	1260	215	465	92
12	290	545	469	625	218	148	241	1070	1310	195	470	58
13	238	546	458	615	216	148	241	1090	1250	182	640	52
14	434	547	460	605	214	170	241	1140	1200	178	575	36
15	465	557	454	600	212	255	240	1220	1140	197	535	49
16	483	552	448	590	210	252	259	1270	1100	260	575	48
17	495	521	480	580	160	250	276	1290	1080	257	620	54
18	494	491	580	595	150	248	351	1290	1000	199	510	43
19	552	470	600	590	148	246	298	1170	978	172	540	55
20	569	474	620	595	148	240	296	1120	965	145	550	49
21	537	472	625	560	148	240	318	1120	931	181	440	65
22	517	466	620	470	127	244	318	1120	859	284	360	110
23	491	448	615	370	36	248	319	1110	811	440	290	154
24	495	396	615	350	31	248	332	1070	760	472	260	179
25	493	391	620	355	35	248	363	990	740	492	275	212
26	496	361	625	358	42	248	427	939	700	460	295	214
27	483	343	630	360	39	242	464	966	600	435	310	193
28	470	361	620	362	24	234	480	926	630	475	250	173
29	474	347	615	360	28	234	449	675	620	595	220	164
30	481	334	610	358	---	234	440	590	570	772	170	155
31	437	---	610	300	---	234	---	652	---	889	175	---
TOTAL	11924	14118	15843	16228	4688	6104	8985	29461	28225	10773	15839	3578
MEAN	385	471	511	523	162	197	300	950	941	348	511	119
MAX	569	557	630	625	240	255	480	1290	1310	889	955	214
MIN	148	334	330	300	24	37	230	425	570	145	170	36
AC-FT	23650	28000	31420	32190	9300	12110	17820	58440	55980	21370	31410	7100

CAL YR 1983	TOTAL 118287.90	MEAN 324	MAX 1170	MIN .00	AC-FT 234600
WTR YR 1984	TOTAL 165765	MEAN 453	MAX 1310	MIN 24	AC-FT 328800

Note.--No gage-height record Dec. 18-23, Dec. 31 to Feb. 21, Mar. 4-22, June 25 to July 13, Aug. 2 to Sept. 12.

13068500 BLACKFOOT RIVER NEAR BLACKFOOT, ID

LOCATION.--Lat 43°07'50", long 112°28'35", near E1/4 cor. sec.28, T.3 S., R.34 E., Bingham County, Hydrologic Unit 17040207, Fort Hall Indian Reservation, on left bank 11 ft upstream from highway bridge, 8 mi southwest of Blackfoot, and at mile 3.4.

DRAINAGE AREA.--1,295 mi2, including that of Sand Creek whose flow is diverted to Blackfoot River through the Idaho Canal.

PERIOD OF RECORD.--July 1913 to current year (prior to October 1931, summer months only). Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft, from river-profile survey. Prior to May 8, 1926, nonrecording gage and May 8, 1926, to June 25, 1937, water-stage recorder at site 0.5 mi upstream at different datum. June 26, 1937, to Aug. 16, 1963, water-stage recorder at site 175 ft downstream at same datum.

REMARKS.--Records fair. Flow regulated by Blackfoot Reservoir (see sta 13065000). Diversions above station for irrigation of about 28,000 acres below and about 32,000 acres above station of which about 900 acres are by withdrawals from ground water (1966 determination). Part of flow is supplied by waste from Snake River canals. Diversions to bypass channel, which diverts 5.5 mi upstream from station, started in April 1964. For records of combined discharges, see following page.

AVERAGE DISCHARGE.--53 years, river only (1932-63), combined river and bypass channel (1964-84), 210 ft3/s, 152,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--River only, maximum discharge, 1,710 ft3/s Feb. 11, 1962, gage height 7.65 ft; no flow on many days. Combined flow, maximum discharge, 2,130 ft3/s May 5, 1974; no flow on many days.

EXTREMES FOR CURRENT YEAR.--River only, maximum discharge, 740 ft3/s June 12, gage height 5.53 ft; maximum gage height 6.64 ft, Jan. 4 (backwater from ice); minimum daily, 112 ft3/s Feb. 21. Combined flow, maximum discharge, 2,060 ft3/s June 12; minimum, 140 ft3/s Feb. 28.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Jan. 4-20, Jan. 30 to Feb. 19;
shifting-control method used May 12-24, June 12 to Sept. 15)

2.4	100	3.5	271
2.5	115	4.0	370
2.7	145	4.5	471
3.0	190	5.0	582
		5.7	756

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	315	260	325	176	138	237	305	364	362	454	208
2	277	313	280	320	172	170	236	312	374	362	426	212
3	264	311	290	315	168	172	234	339	378	319	407	213
4	263	315	300	314	179	170	234	372	379	285	373	156
5	261	315	305	312	185	166	235	396	390	283	336	145
6	255	319	310	312	188	164	237	449	366	262	332	156
7	250	321	315	314	178	166	239	453	356	259	330	177
8	234	321	320	312	174	172	241	443	356	270	328	197
9	217	341	320	312	180	174	241	444	356	273	328	200
10	221	339	325	310	178	176	242	496	434	262	326	209
11	237	338	325	310	172	175	241	582	670	229	324	196
12	260	339	320	312	169	176	239	560	733	210	318	165
13	224	339	315	315	170	176	239	563	712	203	320	152
14	304	338	312	310	165	180	240	591	620	208	328	140
15	309	340	310	308	164	270	244	632	601	229	332	148
16	315	341	310	300	152	265	249	655	591	265	357	151
17	319	333	320	290	138	260	244	650	579	267	378	149
18	319	324	325	285	126	260	231	720	556	257	352	142
19	331	314	325	295	122	260	262	632	534	217	373	140
20	343	311	320	300	118	258	262	591	516	199	369	133
21	333	311	318	260	112	255	267	574	492	213	374	139
22	325	311	316	230	118	261	265	560	456	263	313	164
23	317	311	295	195	120	253	266	547	425	325	259	181
24	317	310	290	195	118	250	271	525	407	342	228	199
25	315	310	325	190	116	246	277	492	405	339	245	223
26	315	305	330	195	126	248	291	481	411	332	263	221
27	315	300	330	192	124	248	312	486	350	329	281	203
28	309	295	330	182	116	244	319	479	403	353	293	190
29	307	285	335	185	124	241	316	393	405	388	254	186
30	309	275	330	182	---	239	311	329	393	402	213	192
31	313	---	325	180	---	237	---	343	---	403	198	---
TOTAL	8974	9560	9731	8347	4350	6670	7773	15424	14081	8917	10021	5320
MEAN	289	318	314	269	150	215	259	498	469	288	323	177
MAX	343	341	335	325	188	270	319	720	733	403	454	223
MIN	217	275	260	180	112	138	234	305	356	199	198	133
AC-FT	17800	18920	19300	16560	8630	13230	15420	30590	27930	17690	19880	10550

CAL YR 1983	TOTAL	98449	MEAN	270	MAX	677	MIN	82	AC-FT	195300
WTR YR 1984	TOTAL	109148	MEAN	298	MAX	733	MIN	112	AC-FT	216500

Note.--No gage-height record Nov. 22 to Jan. 3, Jan. 21-29, Feb. 20 to Mar. 21, Aug. 6-14.

13068501 BLACKFOOT RIVER NEAR BLACKFOOT, ID

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, RIVER AND BYPASS CHANNEL NEAR BLACKFOOT, ID
WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	649	805	590	930	416	175	471	730	1150	832	1410	396
2	560	793	619	920	394	307	470	811	1210	822	1290	404
3	511	794	674	910	382	319	468	933	1180	719	1130	358
4	509	798	738	914	408	316	464	1140	1180	628	1010	290
5	501	800	661	917	423	311	468	1250	1220	628	946	258
6	481	819	688	912	428	309	478	1330	1410	522	937	274
7	459	823	731	914	398	311	484	1320	1500	509	925	303
8	411	774	759	912	398	319	486	1280	1520	530	948	335
9	365	888	770	917	412	322	486	1270	1500	533	966	346
10	373	883	793	920	400	324	487	1450	1640	497	986	359
11	436	867	796	930	392	323	482	1680	1930	444	989	285
12	550	884	789	937	387	324	480	1630	2040	405	988	223
13	462	885	773	930	386	324	480	1650	1970	385	960	204
14	738	885	772	915	382	350	481	1730	1820	386	903	176
15	774	897	764	908	376	525	484	1850	1740	426	867	197
16	798	893	758	890	362	517	508	1930	1690	525	932	199
17	814	854	800	870	298	510	520	1970	1660	524	978	203
18	813	815	905	870	276	508	632	2010	1560	456	862	191
19	883	784	925	885	270	506	560	1800	1510	389	913	195
20	912	785	940	895	266	498	558	1710	1480	347	939	182
21	870	783	943	820	260	495	585	1690	1420	394	814	205
22	842	777	936	700	245	505	584	1680	1320	547	673	274
23	808	759	910	565	156	501	585	1660	1240	765	548	335
24	812	706	905	535	149	498	603	1600	1170	814	488	378
25	808	701	945	545	151	494	645	1480	1150	830	520	435
26	811	666	955	553	168	496	718	1470	1110	792	558	435
27	798	643	960	552	163	490	776	1450	980	764	591	392
28	779	656	950	544	140	478	799	1410	1030	828	563	363
29	781	632	950	545	152	475	765	1070	1030	983	474	350
30	790	609	940	540	---	473	751	909	963	1170	383	350
31	800	---	935	480	---	471	---	995	---	1290	373	---
TOTAL	20898	23658	25574	24575	9038	12774	16758	44888	42323	19684	25864	8898
MEAN	674	789	825	793	312	412	559	1448	1411	635	834	297
MAX	912	897	960	937	428	525	799	2010	2040	1290	1410	435
MIN	365	609	590	480	140	175	464	730	963	347	373	176
AC-FT	41450	46930	50730	48740	17930	25340	33240	89040	83950	39040	51300	17650

CAL YR 1983	TOTAL	216737	MEAN	594	MAX	1840	MIN	83	AC-FT	429900
WTR YR 1984	TOTAL	274932	MEAN	751	MAX	2040	MIN	140	AC-FT	545300

13069500 SNAKE RIVER NEAR BLACKFOOT, ID

LOCATION.--Lat 43°07'31", long 112°31'06", in SE1/4 SE1/4 sec.30, T.3 S., R.34 E., Bingham County, Hydrologic Unit 17040206, on right bank 0.3 mi downstream from highway bridge, 0.7 mi downstream from Blackfoot River, 10 mi southwest of Blackfoot, and at mile 750.1.

DRAINAGE AREA.--11,310 mi2, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--June 1910 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "at Clough ranch, near Blackfoot" 1924-45.

GAGE.--Water-stage recorder. Datum of gage is 4,399.83 ft National Geodetic Vertical Datum of 1929. Prior to July 6, 1913, nonrecording gages; July 6, 1913, to Aug. 19, 1962, water-stage recorder at site 0.1 mi upstream at datum 1.00 ft higher.

REMARKS.--Records good. Flow regulated by Jackson Lake, Palisades Reservoir, Henrys Lake (see sta 13039000), Grassy Lake, Island Park Reservoir, and Blackfoot Reservoir (see sta 13065000), having a combined capacity of 2,853,000 acre-ft. Diversions above station for irrigation of about 121,000 acres below and about 832,000 acres above station of which about 135,000 acres are by withdrawals from ground water (1966 determination). Considerable water leaks above the station into the Snake Plain aquifer.

AVERAGE DISCHARGE.--74 years, 6,912 ft3/s, 3,559,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,500 ft3/s June 7, 1976, gage height, 15.44 ft result of Teton Dam failure, maximum discharge, excluding 1976, 46,200 ft3/s June 18, 1918, gage height, 14.80 ft, site and datum then in use; minimum, 111 ft3/s Nov. 10, 1934, gage height, 0.80 ft, site and datum then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Late in summer of 1905 there was no flow in Snake River for a distance of 10 mi in vicinity of Blackfoot. Aug. 9, 1905, discharge of Snake River just below mouth of Blackfoot River was 39 ft3/s, supplied by ground-water inflow a short distance upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,400 ft3/s May 18, gage height, 12.32 ft; minimum, 3,520 ft3/s Mar. 3, gage height, 3.95 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used June 28 to Sept. 30; stage-discharge relation
affected by ice Dec. 16-29, Jan. 7 to Feb. 3)

4.0	3700	8.0	13200
4.5	4600	9.0	16500
5.0	5390	10.0	20000
6.0	7800	11.0	23500
7.0	10300	13.0	32400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4710	5910	7020	8000	8550	4230	10200	16500	21400	18700	11900	5720
2	5030	5850	7260	7450	8400	4600	9140	17200	22800	18400	11200	5500
3	5470	5950	8050	7200	8000	4440	7870	17900	23600	17900	10500	5750
4	6110	5880	8770	7550	6500	4400	9970	19300	23500	17300	10100	5490
5	5640	5910	8440	8050	6200	4330	10300	18600	22800	16700	9250	5100
6	5320	6340	8300	8250	6050	4200	10400	19700	23700	16100	8210	4640
7	4950	7370	8670	8300	5800	4190	10700	18500	25200	15800	7560	4710
8	4820	7680	8660	8250	5700	4180	12200	18400	26400	16200	6440	5120
9	4650	7880	8690	8150	5700	4030	12500	14900	26400	16100	5960	5190
10	4590	8160	8760	8100	5690	4040	12400	14900	26700	15700	5530	6690
11	4680	8320	9000	8150	5580	4100	12300	18600	27100	15000	5400	6400
12	4990	8380	9210	8050	5350	4150	12200	19300	27300	14300	5320	6310
13	5000	8540	9160	8000	4710	4190	12300	20000	26700	12600	5440	6020
14	5270	8680	9110	7950	4670	4520	13600	20900	24900	11600	5460	5700
15	5620	8880	8970	8000	4610	5130	13500	22000	23300	11500	5440	5120
16	5650	8790	8800	8100	4610	5320	13900	24600	22100	11800	5440	4750
17	6360	8670	8550	7550	4640	5280	14100	27600	21900	11200	6550	4640
18	6770	8630	8400	6850	4670	5050	14800	29100	21700	10000	7290	4420
19	7080	8220	8150	7000	4540	5010	15800	27500	22100	9640	7730	4260
20	7320	8250	7900	7650	4460	4920	16800	24600	21900	7620	7800	4240
21	7290	8200	7350	8000	4230	4880	17300	23400	20900	7550	7690	4350
22	7230	8300	6450	8100	4260	5050	17400	23400	20100	6940	7250	4900
23	7140	8550	6850	8200	4250	6140	17100	23400	19300	9460	6080	5580
24	7190	8500	7450	8300	4360	7300	17100	22000	18900	10600	5640	6440
25	7370	8690	7850	8400	4230	7430	17300	20600	19200	12600	5240	7750
26	9200	8750	8200	8450	4300	8430	17500	20100	18800	12600	5800	8790
27	9520	8530	8250	8500	4270	9830	17400	19600	18100	10700	6290	9630
28	9370	8140	8200	8800	4220	9880	16900	18800	17800	10000	6290	8950
29	8090	7970	8150	8650	4190	9980	16600	17500	19000	10200	6150	8910
30	6130	7650	8150	8450	---	10000	16500	18000	19600	11200	5820	9310
31	5910	---	8250	8350	---	10100	---	19700	---	11800	5620	---
TOTAL	194470	235550	255050	248800	152540	179150	416280	635100	673200	397810	217620	180970
MEAN	6273	7852	8227	8026	5260	5779	13880	20490	22440	12830	7020	6032
MAX	9520	8880	9210	8800	8550	10100	17500	29100	27300	18700	11900	9470
MIN	4590	5850	6450	6850	4190	4030	7870	14900	17800	6940	5240	4240
AC-FT	385700	467200	505900	493500	302600	355300	825700	1260000	1335000	789100	431600	359000

CAL YR 1983	TOTAL	3265880	MEAN	8948	MAX	25600	MIN	1370	AC-FT 6478000
WTR YR 1984	TOTAL	3786540	MEAN	10350	MAX	29100	MIN	4030	AC-FT 7511000

13070300 PORTNEUF RESERVOIR NEAR CHESTERFIELD, ID

LOCATION.--Lat 42°52'42", long 111°56'38", in SW1/4 SW1/4 SW1/4 sec.19, T.6 S., R.39 E., Bannock County, Hydrologic Unit 17040208, at outlet of reservoir on Portneuf River 2.5 mi northwest of Chesterfield, Idaho.

DRAINAGE AREA.--100 mi2.

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Nonrecording gage, sloping gage on dam face. Approximate gage datum is 5,630 ft, levels by Portneuf-Marsh Valley Canal Co.

REMARKS.--Reservoir is formed by earth-fill, rock-faced dam. The dam was completed in 1911 with a capacity of 16,400 acre-ft. In 1951, the dam was enlarged and the capacity was increased to 24,000 acre-ft. Flow from the reservoir is regulated by gates at the outlet control house. Altitude of the crest of the spillway is 5,681 ft. Dam is owned and operated by the Portneuf-Marsh Valley Canal Co. Reservoir is used for flood control and to store water for irrigation in Portneuf River valley.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 46.10 ft May 19, 1984; minimum observed, 26.71 ft Oct. 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 46.10 ft May 19; minimum observed, 31.30 ft Mar. 23.

GAGE HEIGHT (FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	43.20
2	---	---	---	---	---	---	---	---	45.10	---	---	---
3	---	---	37.20	---	---	33.00	---	---	---	---	42.65	---
4	---	---	---	38.78	35.40	---	---	---	---	---	---	43.26
5	---	36.30	---	---	---	---	---	44.05	---	---	---	---
6	---	---	---	---	---	---	---	---	---	43.80	---	---
7	---	---	---	38.80	---	---	33.50	---	---	---	42.80	---
8	35.50	36.40	---	---	33.00	---	---	---	---	---	---	43.30
9	---	---	---	---	---	32.20	---	---	45.05	---	---	---
10	---	---	37.50	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	36.60	---	---	---	---	---	---	---	---	---	43.33
13	---	---	---	---	---	---	---	45.52	---	---	---	---
14	---	---	---	38.20	---	---	36.00	---	---	43.40	---	---
15	35.80	---	---	---	---	---	---	---	---	---	---	43.00
16	---	---	---	---	---	31.60	---	---	45.10	---	---	---
17	---	---	37.60	---	33.10	---	---	---	---	43.08	43.00	---
18	---	---	---	---	---	---	---	---	---	42.90	---	---
19	---	36.80	---	---	---	---	---	46.10	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	37.10	---	---	39.80	---	44.95	---	---	---
22	36.10	---	---	---	---	---	---	---	---	---	---	42.90
23	---	---	---	---	---	31.30	---	---	---	---	---	---
24	---	---	37.70	---	---	---	---	---	---	---	43.10	---
25	---	---	---	---	33.10	---	---	---	---	---	---	---
26	---	37.00	---	---	---	---	---	45.70	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	36.30	---	---	41.00	---	---	42.85	---	42.50
29	35.90	---	---	---	---	---	---	45.70	44.15	---	---	---
30	---	---	37.80	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	32.00	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

13073000 PORTNEUF RIVER AT TOPAZ, ID

LOCATION.--Lat 42°37'30", long 112°05'20", in SE1/4 sec.23, T.9 S., R.37 E., Bannock County, Hydrologic Unit 17040208, on right bank 200 ft upstream from Bob Smith Creek, 800 ft downstream from Topaz siding, 1.5 mi upstream from diversion dam of Portneuf-Marsh Valley Canal Co., 4 mi west of Lava Hot Springs, and at mile 55.5.

DRAINAGE AREA.--570 mi2, approximately (includes that of Bob Smith Creek). Mean altitude, 6,050 ft.

PERIOD OF RECORD.--January 1913 to September 1915, July 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1347: 1920-22, 1926-23(M). WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,918.00 ft National Geodetic Vertical Datum of 1929 (levels by USGS). Prior to July 20, 1919, nonrecording gage at site 0.3 mi downstream at datum 3.0 ft lower. July 20, 1919, to June 22, 1954, nonrecording gage at site 0.3 mi downstream at datum 2.00 ft lower than present datum.

REMARKS.--Records fair. Flow regulated by Portneuf Reservoir, capacity 24,000 acre-ft, and Chesterfield Reservoir on Twenty-Four Mile Creek, capacity 685 acre-ft. Diversions above station for irrigation of about 29,000 acres of which about 7,400 acres are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--67 years, 201 ft3/s, 145,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,120 ft3/s Feb. 1, 1963, gage height, 8.22 ft, result of highway fill failure 2 mi upstream; maximum excluding 1963, 1,740 ft3/s Dec. 23, 1964, gage height, 6.00 ft; minimum, 64 ft3/s Sept. 23, 1966, gage height, 2.27 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,350 ft3/s May 21, gage height, 5.42 ft; minimum daily, 180 ft3/s Jan. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	282	196	225	230	287	232	275	377	1020	415	385	256
2	272	204	234	231	285	232	276	408	1010	413	382	249
3	266	212	242	231	284	231	285	437	974	408	369	244
4	261	220	250	234	285	252	292	439	949	398	357	243
5	253	231	244	232	286	272	301	441	962	395	345	240
6	248	238	240	223	283	279	338	466	948	395	339	249
7	240	239	247	238	283	278	342	472	941	395	336	250
8	234	236	256	256	285	279	372	489	865	390	305	246
9	232	230	266	292	284	281	367	544	794	349	268	240
10	234	234	272	298	268	261	343	609	778	310	262	237
11	241	239	278	301	250	249	332	638	850	300	240	233
12	236	248	265	302	240	249	329	698	831	293	222	275
13	231	250	264	300	252	249	322	798	763	293	222	277
14	232	236	260	299	265	258	333	965	726	283	224	274
15	236	228	253	295	252	263	355	1080	727	275	226	274
16	220	226	247	265	248	267	380	1180	737	270	232	274
17	230	240	238	208	250	264	407	1240	741	269	240	272
18	220	255	232	180	248	261	463	1200	730	282	242	270
19	218	256	227	200	240	262	473	1160	711	287	232	267
20	217	242	218	270	237	271	475	1180	690	296	238	270
21	217	233	212	272	228	281	436	1240	674	314	240	287
22	218	228	204	268	231	281	415	1320	633	344	238	285
23	220	229	196	270	233	268	413	1230	580	359	236	281
24	225	234	212	290	235	264	416	1220	555	350	240	283
25	219	241	231	288	234	258	404	1220	563	319	248	281
26	209	237	230	288	233	260	391	1140	510	324	252	280
27	204	231	222	290	229	257	371	1030	490	351	256	279
28	208	236	217	289	231	257	365	976	458	383	258	275
29	212	240	226	258	232	260	369	964	435	446	253	275
30	213	227	231	287	---	264	368	973	430	463	252	274
31	198	---	230	288	---	272	---	1010	---	402	254	---
TOTAL	7146	6994	7369	8193	7339	8112	10988	27124	22055	10753	8413	7941
MEAN	231	233	238	264	254	262	366	875	735	347	271	265
MAX	282	256	278	302	287	281	475	1320	1020	446	385	287
MIN	198	196	196	180	228	231	275	377	430	268	222	233
AC-FT	14170	13870	14620	16250	14600	16090	21790	53800	43750	21330	16690	15750

CAL YR 1983	TOTAL	116944	MEAN	320	MAX	1030	MIN	151	AC-FT	232000
WTR YR 1984	TOTAL	132467	MEAN	362	MAX	1320	MIN	180	AC-FT	262700

Note.--No gage-height record Oct. 16 to Jan. 9, Feb. 14-23, Aug. 8-27.

13075000 MARSH CREEK NEAR MCCAMMON, ID

LOCATION.--Lat 42°37'48", long 112°13'29", in NE1/4 sec.22, T.9 S., R.36 E., Bannock County, Hydrologic Unit 17040208, 70 ft upstream from county road crossing, 2 mi southwest of McCammon, and at mile 16.8.

DRAINAGE AREA.--353 mi2. Mean altitude, 5,630 ft.

PERIOD OF RECORD.--September 1954 to current year.

REVISED RECORDS.--WDR Idaho 1980-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,610 ft, by barometer. Prior to July 14, 1965, nonrecording gage 10 ft upstream at same datum.

REMARKS.--Records fair. Diversions above station for irrigation of about 19,000 acres, of which about 5,500 acres are by withdrawals from ground water and about 3,000 acres are by diversions into Marsh Creek basin from Portneuf River through the Marsh Valley Canal (1966 determination). Part of Birch Creek (tributary to Marsh Creek) diverted into Devil Creek in Bear River basin.

AVERAGE DISCHARGE.--30 years, 89.6 ft3/s, 64,920 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 1,120 ft3/s Feb. 12, 1962, gage height, 13.25 ft; minimum, 16 ft3/s Dec. 6, 1978, gage height, 2.59 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 378 ft3/s May 16, gage height, 6.79 ft; minimum discharge, 53 ft3/s Jan. 17, gage height, 2.90 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	161	136	124	116	121	170	257	314	161	131	119
2	177	142	141	123	117	121	167	262	306	154	140	120
3	177	151	145	124	113	120	166	266	303	142	130	119
4	164	149	153	124	111	116	166	259	300	136	121	106
5	158	151	145	126	111	117	168	256	293	132	122	100
6	152	161	146	129	109	116	172	251	269	127	106	103
7	149	161	147	129	113	115	173	243	278	126	108	113
8	144	165	166	131	112	120	177	245	263	133	113	115
9	143	162	167	131	112	122	179	248	250	123	110	119
10	153	161	175	132	116	126	178	256	258	116	111	114
11	149	162	184	132	111	140	180	258	295	113	113	116
12	146	161	177	132	115	148	179	262	281	109	112	137
13	139	176	171	133	119	156	180	275	264	107	115	138
14	146	172	165	133	130	174	178	308	251	99	116	135
15	148	167	163	131	126	198	180	353	244	95	116	126
16	144	163	157	124	125	202	185	389	233	99	121	122
17	143	171	152	106	127	221	193	369	229	94	139	122
18	141	183	150	96	129	236	213	353	227	84	142	120
19	138	168	144	122	125	238	234	352	224	77	137	124
20	138	168	139	119	124	242	242	357	213	80	138	125
21	140	163	130	114	120	269	242	366	199	97	136	149
22	141	153	111	117	122	249	246	369	197	132	124	149
23	141	151	105	119	119	240	252	362	187	145	124	155
24	148	151	116	123	121	233	257	356	190	127	123	153
25	144	156	124	124	122	212	262	355	184	115	125	152
26	144	155	124	124	121	203	266	365	179	112	129	144
27	144	150	118	124	118	193	262	334	180	106	129	142
28	144	150	114	124	118	182	260	326	176	104	128	140
29	143	140	116	122	119	179	259	322	171	134	122	146
30	143	136	122	120	---	175	256	320	170	124	117	143
31	143	---	122	117	---	172	---	319	---	122	116	---
TOTAL	4599	4760	4425	3827	3444	5456	6242	9593	7128	3625	3814	3866
MEAN	148	158	143	123	119	176	208	309	238	117	123	129
MAX	177	183	184	133	130	269	266	389	314	161	142	155
MIN	138	136	105	96	109	115	166	243	170	77	106	100
AC-FT	9120	9400	8780	7590	6830	10820	12380	19030	14140	7190	7570	7670

CAL YR 1983 TOTAL 58100 MEAN 159 MAX 342 MIN 79 AC-FT 115200
WTR YR 1984 TOTAL 60759 MEAN 166 MAX 389 MIN 77 AC-FT 120500

13075100 RAPID CREEK NEAR INKOM, ID

LOCATION.--Lat 42°48'02", long 112°13'46", in NW1/4 SW1/4 NE1/4 sec.22, T.7 S., R.36 E., Bannock County, Hydrologic Unit 17040208, on right bank at upstream side of bridge crossing Rapid Creek, 40 ft downstream from Jackson Creek and 1.4 mi east of Inkom, Idaho.

DRAINAGE AREA.--57.2 mi2.

PERIOD OF RECORD.--October 1979 to May 1982, January to September 1984.

GAGE.--Nonrecording gage, staff and crest-stage gage. Datum of gage is 4,620 ft, from topographic map.

REMARKS.--Records fair. Some diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 642 ft3/s May 15, 1984, gage height, 6.80 ft from floodmarks; minimum daily, 2.8 ft3/s Sept. 17, 18, 1981.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge, 642 ft3/s May 15, gage height, 6.80 ft; minimum daily, 12 ft3/s Jan. 18.

REVISIONS.--The maximum discharge for water year 1981 has been revised to 615 ft3/s May 25, 1981, gage height, 5.81 ft; revised daily discharges, in cubic feet per second, for the high-water period in May 1981 are given below. These figures supersede those published in the report for 1981.

May 18	70	May 20	100	May 22	230	May 24	390
May 19	66	May 21	140	May 23	320	May 25	450

	Total	Mean	Max
May 1981	3720	120	450
Wtr yr 1981	9794.5	26.8	450

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				24	15	19	64	272	291	73	43	18
2				23	19	18	64	345	254	73	31	21
3				23	18	18	66	390	216	73	31	21
4				22	17	17	70	390	208	73	31	20
5				21	16	16	70	377	216	70	31	20
6				21	17	17	98	329	235	66	29	20
7				21	18	17	93	311	208	63	26	21
8				20	17	19	93	345	197	63	24	20
9				19	17	22	98	480	197	57	20	17
10				19	19	26	82	468	197	54	20	17
11				20	18	26	72	468	181	51	20	17
12				18	19	26	66	450	179	46	20	17
13				17	21	26	52	566	179	41	20	17
14				18	19	33	77	613	179	37	20	17
15				15	18	37	93	628	179	34	20	17
16				14	19	42	135	560	179	30	30	16
17				13	18	29	219	455	179	30	21	16
18				12	16	34	474	444	161	28	21	15
19				13	15	38	444	444	161	28	32	15
20				15	15	38	374	431	161	28	21	15
21				17	17	39	345	404	134	60	21	15
22				19	19	41	345	390	134	156	21	16
23				18	18	41	329	377	130	175	21	16
24				20	19	41	329	404	123	175	21	15
25				22	19	43	287	377	123	156	21	15
26				21	18	45	272	361	116	130	21	16
27				21	17	43	268	329	111	110	54	16
28				21	16	39	254	329	89	92	33	16
29				19	17	47	254	291	89	76	22	16
30				18	---	52	254	291	89	64	20	15
31				17	---	62	---	311	---	57	19	---
TOTAL				581	514	1011	5741	12660	5035	2269	785	520
MEAN				18.7	17.7	32.6	191	408	168	73.2	25.3	17.3
MAX				24	21	62	474	628	291	175	54	21
MIN				12	15	16	52	272	89	28	19	15
AC-FT				1150	1020	2010	11390	25110	9990	4500	1560	1030

13075500 PORTNEUF RIVER AT POCATELLO, ID

LOCATION.--Lat 42°52'20", long 112°28'05", in SE1/4 NW1/4 sec.27, T.6 S., R.34 E., Bannock County, Hydrologic Unit 17040208, on left bank 1,400 ft downstream from Carson Street Bridge, at Pocatello, 1.2 mi upstream from Pocatello Creek and at mile 16.8.

DRAINAGE AREA.--1,250 mi2, approximately. Mean altitude, 5,850 ft.

PERIOD OF RECORD.--May to September 1897, March 1898 to October 1899, August 1911 to current year.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,418.41 ft National Geodetic Vertical Datum of 1929 (U.S. Corps of Engineers datum). May 18, 1897, to Oct. 14, 1899, nonrecording gage at site 1.6 mi upstream at different datum. Aug. 31, 1911, to May 13, 1927, and Oct. 13, 1927, to June 13, 1928, nonrecording gage 0.3 mi upstream at different datum. May 14 to Oct. 12, 1927, water-stage recorder near present site at different datum. June 14, 1928, to Sept. 28, 1950, water-stage recorder near Carson Street Bridge, 0.3 mi upstream at same datum as former nonrecording gages at this site. Sept. 29, 1950, to May 20, 1968, water-stage recorder at Fremont Street site, 1.0 mi upstream at datum 18.57 ft higher.

REMARKS.--Records poor. Flow regulated by Portneuf Reservoir formed by earth dam completed in 1912 and raised 7 ft in 1950, capacity, 23,695 acre-ft; 16,410 acre-ft prior to 1950, and Chesterfield Reservoir, capacity, 685 acre-ft. Diversions above station for irrigation of about 55,000 acres of which about 13,000 acres are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--71 years (1913-16, 1918-84), 280 ft3/s, 202,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,990 ft3/s Feb. 14, 1962, gage height, 11.35 ft, site and datum then in use, maximum gage height, 13.85 ft May 17, 1984; minimum daily, 0.23 ft3/s July 19, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,870 ft3/s May 17, gage height, 13.85 ft; minimum discharge, 239 ft3/s Aug. 12, gage height, 3.49 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	492	415	448	465	555	440	635	1090	1980	721	440	375
2	476	416	472	468	558	443	629	1170	1930	685	446	380
3	457	427	476	465	565	438	629	1250	1850	654	442	370
4	458	427	503	466	550	438	664	1320	1790	622	406	355
5	448	434	489	467	536	475	700	1330	1730	582	368	330
6	440	469	430	465	530	501	762	1340	1700	553	349	320
7	418	484	505	467	524	505	816	1330	1710	545	325	350
8	426	477	528	477	526	508	826	1350	1670	513	307	365
9	434	462	543	534	521	516	824	1410	1630	496	293	370
10	443	446	561	542	532	531	816	1520	1640	450	257	375
11	432	460	587	547	486	484	784	1630	1690	416	252	360
12	416	472	599	547	463	475	763	1700	1650	377	245	350
13	415	506	582	551	488	509	750	1810	1620	351	247	430
14	439	516	568	547	521	555	739	2050	1560	328	252	445
15	429	495	561	536	488	582	787	2510	1470	299	250	440
16	417	476	549	500	479	624	888	2840	1460	283	273	430
17	426	507	530	450	484	645	990	2850	1400	270	278	420
18	431	562	521	380	473	658	1090	2550	1350	253	284	415
19	423	538	490	460	458	654	1160	2500	1310	244	271	420
20	420	513	470	540	448	681	1190	2520	1250	240	281	425
21	417	509	450	538	444	708	1170	2570	1230	276	290	435
22	416	493	430	530	465	710	1160	2660	1210	374	286	485
23	412	476	410	535	425	706	1160	2520	1170	419	289	500
24	430	484	390	538	425	692	1190	2530	1100	400	322	495
25	425	502	420	540	427	696	1200	2500	1040	335	347	480
26	397	498	455	545	431	645	1170	2360	994	284	360	460
27	385	480	470	550	421	639	1140	2160	917	332	356	445
28	392	482	455	557	416	626	1100	2090	859	322	402	435
29	388	491	435	566	427	612	1100	2080	799	381	377	420
30	392	446	445	568	---	633	1070	2010	762	475	366	440
31	409	---	470	562	---	637	---	2010	---	429	370	---
TOTAL	13203	14363	15292	15903	14066	17966	27902	61560	42471	12909	10031	12320
MEAN	426	479	493	513	485	580	930	1986	1416	416	324	411
MAX	492	562	599	568	565	710	1200	2850	1980	721	446	500
MIN	385	415	390	380	416	438	629	1090	762	240	245	320
AC-FT	26190	28490	30330	31540	27900	35640	55340	122100	84240	25610	19900	24440

CAL YR 1983	TOTAL	227369	MEAN	623	MAX	1980	MIN	186	AC-FT	451000
WTR YR 1984	TOTAL	257986	MEAN	705	MAX	2850	MIN	240	AC-FT	511700

Note.--No gage-height record May 18-29, Sept. 1-30.

13076500 AMERICAN FALLS RESERVOIR AT AMERICAN FALLS, ID

LOCATION.--Lat 42°46'45", long 112°52'45", in SE1/4 SW1/4 sec.30, T.7 S., R.31 E., Power County, Hydrologic Unit 17040206, at outlet gates near right abutment of American Falls Dam on Snake River, at American Falls, and at mile 714.7.

DRAINAGE AREA.--13,580 mi2, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--March 1926 to September 1979, October 1982 to current year.

GAGE.--Water-stage recorder. Prior to July 11, 1977, water-stage recorder at same datum on old dam. Datum of gage is at sea level (levels by U.S. Bureau of Reclamation).

REMARKS.--Reservoir is formed by concrete gravity spillway and dam with earth embankments at each end. Dam was rebuilt in 1976 and 1977. Partial storage began in 1926, full storage in 1927. Capacity, 1,700,000 acre-ft between elevations 4,295.66 ft and 4,354.50 ft. Elevation at bottom of outlet gate is 4,285.00 ft and elevation at top of spillway radial gate is 4,356.50 ft. Dead storage unknown. Water is used for power generation and for irrigation by canals diverting from Snake River at Minidoka and Milner Dams. From 1973-77, owing to the condition of the old dam, storage was limited to the spillway crest level, 4,343.2 ft. Reservoir was emptied in September 1977 to permit completion of the new sections of the dam. Storage began on Oct. 14, 1977 behind the present structure.

COOPERATION.--Reservoir elevations and capacity table furnished by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,748,000 acre-ft June 21, 1963, elevation, 4,355.34 ft; minimum since full capacity, excluding 1977, 65,800 acre-ft Sept. 30, 1979, elevation 4,305.08 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,739,000 acre-ft June 15, elevation, 4,355.63 ft; minimum contents, 1,030,000 acre-ft Feb. 7, gage height, 4,342.15 ft.

CONTENTS (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1171000	1113000	1125000	1140000	1034000	1222000	1487000	1605000	1663000	1668000	1668000	1524000
2	1171000	1111000	1125000	1140000	1033000	1230000	1486000	1605000	1665000	1670000	1665000	1523000
3	1174000	1111000	1129000	1143000	1033000	1241000	1483000	1606000	1670000	1674000	1661000	1522000
4	1177000	1110000	1131000	1144000	1033000	1248000	1484000	1607000	1671000	1676000	1662000	1515000
5	1182000	1109000	1140000	1143000	1032000	1256000	1482000	1607000	1680000	1678000	1659000	1515000
6	1187000	1108000	1140000	1142000	1030000	1265000	1484000	1610000	1682000	1671000	1655000	1502000
7	1188000	1111000	1145000	1139000	1034000	1272000	1487000	1611000	1685000	1669000	1655000	1498000
8	1191000	1111000	1150000	1137000	1043000	1279000	1490000	1613000	1689000	1668000	1653000	1498000
9	1192000	1111000	1155000	1136000	1052000	1289000	1490000	1609000	1702000	1667000	1651000	1497000
10	1193000	1111000	1161000	1134000	1060000	1297000	1491000	1603000	1709000	1667000	1645000	1497000
11	1193000	1111000	1165000	1131000	1068000	1311000	1494000	1606000	1717000	1666000	1639000	1496000
12	1194000	1112000	1170000	1128000	1075000	1323000	1495000	1613000	1723000	1663000	1633000	1497000
13	1194000	1113000	1175000	1125000	1081000	1336000	1497000	1625000	1735000	1666000	1627000	1500000
14	1194000	1115000	1183000	1123000	1085000	1346000	1500000	1628000	1736000	1668000	1620000	1499000
15	1194000	1116000	1184000	1119000	1096000	1358000	1505000	1644000	1735000	1668000	1613000	1498000
16	1195000	1116000	1187000	1115000	1104000	1371000	1509000	1657000	1730000	1671000	1609000	1491000
17	1193000	1116000	1184000	1112000	1114000	1384000	1510000	1671000	1727000	1674000	1607000	1491000
18	1193000	1116000	1181000	1100000	1122000	1396000	1521000	1688000	1723000	1671000	1604000	1487000
19	1191000	1117000	1178000	1091000	1126000	1409000	1527000	1703000	1715000	1667000	1598000	1485000
20	1187000	1117000	1175000	1081000	1126000	1419000	1558000	1709000	1707000	1662000	1598000	1469000
21	1182000	1117000	1165000	1071000	1133000	1428000	1578000	1712000	1700000	1658000	1598000	1471000
22	1176000	1115000	1155000	1065000	1154000	1437000	1599000	1715000	1691000	1653000	1594000	1475000
23	1170000	1115000	1149000	1061000	1163000	1447000	1609000	1713000	1681000	1653000	1587000	1474000
24	1168000	1115000	1143000	1058000	1172000	1457000	1611000	1712000	1667000	1655000	1582000	1475000
25	1163000	1115000	1138000	1055000	1179000	1469000	1613000	1710000	1662000	1666000	1572000	1481000
26	1151000	1115000	1134000	1055000	1188000	1478000	1631000	1699000	1660000	1673000	1565000	1486000
27	1144000	1117000	1135000	1053000	1197000	1481000	1612000	1697000	1658000	1678000	1560000	1500000
28	1140000	1120000	1136000	1051000	1206000	1482000	1609000	1689000	1653000	1677000	1553000	1508000
29	1135000	1123000	1137000	1047000	1214000	1485000	1606000	1680000	1650000	1675000	1545000	1518000
30	1121000	1125000	1139000	1045000	---	1485000	1605000	1673000	1662000	1674000	1536000	1528000
31	1114000	---	1140000	1041000	---	1485000	---	1652000	---	1670000	1525000	---
MEAN	1174800	1114600	1153400	1100900	1103000	1367300	1535100	1653900	1691600	1668300	1610900	1497300
MAX	1195000	1125000	1187000	1144000	1214000	1485000	1631000	1715000	1736000	1678000	1668000	1528000
MIN	1114000	1108000	1125000	1041000	1030000	1222000	1482000	1603000	1650000	1653000	1525000	1469000
(†)	4343.97	4344.19	4344.50	4342.39	4346.02	4351.19	4353.32	4354.16	4354.32	4354.46	4351.91	4351.96
(‡)	-54	+11	+15	-99	+173	+271	+120	+47	+10	+8	-145	+3

CAL YR 1983........... (‡) -61
WTR YR 1984........... (‡) +360

(†) Elevation, in feet, at end of month.
(‡) Change in contents, in thousands of acre-feet.

13077000 SNAKE RIVER AT NEELEY, ID

LOCATION.--Lat 42°46'06", long 112°52'42", in NE1/4 SW1/4 sec.31, T.7 S., R.31 E., Power County, Hydrologic Unit 17040209, on right bank 400 ft upstream from fish hatchery buildings, 0.9 mi downstream from American Falls Dam, at mile 713.6. Records computed to show flow at former site in sec. 11, T.8 S., R.30 E., 0.5 mi north of Neeley and 2.5 mi downstream from present site, by adding inflow between sites. Water-quality sampling site 300 ft downstream.

DRAINAGE AREA.--13,600 mi2, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--March 1906 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1317: 1910.

GAGE.--Water-stage recorder. Datum of gage is 4,241.6 ft National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to Aug. 8, 1910, nonrecording gage, and Aug. 8, 1910, to June 6, 1930, water-stage recorder at site 2.5 mi downstream at different datum. June 7, 1930, to Mar. 19, 1945, water-stage recorder at site 0.4 mi upstream at datum 0.4 ft higher.

REMARKS.--Records good. Flow regulated by American Falls Reservoir and other reservoirs, having a combined usable capacity of 4,606,000 acre-ft. Diversions above station for irrigation of about 1,080,000 acres of which about 223,000 acres are by withdrawals from ground water (1965 determination). Considerable water leaks into the Snake Plain aquifer above the station, some of which returns above American Falls Reservoir.

AVERAGE DISCHARGE.--58 years (1927-84), 7,346 ft3/s, 5,322,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 48,400 ft3/s June 20, 1918, gage height, 13.5 ft, site and datum then in use; minimum, 50 ft3/s Oct. 22, 23, Nov. 14-16, 1941, Oct. 29, 1961, Nov. 6, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,300 ft3/s June 19, gage height, 9.67 ft; minimum, 1,160 ft3/s Mar. 11, gage height, 3.47 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6850	9090	9300	11000	12800	3150	12200	19000	23300	12700	16100	11500
2	6970	8610	9300	11400	11400	3110	12200	19500	23400	18500	15500	10400
3	6930	8640	9310	11300	10600	3130	12300	19800	23300	19400	14500	9420
4	6920	8710	9340	11600	10600	3130	12200	19900	23300	18900	14100	9400
5	6890	8710	9520	12100	10600	3130	12000	19900	23300	19700	13400	9460
6	6860	8660	9430	12300	9220	3170	12600	19900	24600	20100	11600	10000
7	7020	8700	9540	12800	6110	3160	13100	19900	25400	19500	10700	10400
8	7030	9570	9530	12700	4570	3190	14100	19900	25500	19300	10700	9430
9	7050	10300	9470	12900	4860	3150	14300	20000	25500	19100	10700	9250
10	7060	10600	9480	12900	4930	3130	14200	19700	25600	18500	10700	9540
11	7020	10600	9450	12900	4920	1280	14200	19200	26000	17600	11200	9450
12	7410	10600	9480	12800	4990	1280	14200	18300	26300	15700	10900	9740
13	7640	10500	9450	12900	4960	1290	14300	17900	27200	14300	11000	9520
14	7830	10600	9510	12900	4950	3290	14200	17900	27600	14000	11400	9000
15	8500	10800	9470	12900	4490	3250	14200	19300	27600	13600	11900	8640
16	8830	11000	12500	12900	3450	2970	14100	21000	27700	13100	12100	8810
17	9450	11100	12700	12900	3680	2770	14100	22500	27900	13200	11700	8750
18	9900	11100	12700	12800	3590	2720	14100	23300	27700	13700	11600	9570
19	10800	11100	12700	12800	3610	2790	12600	23900	28000	14700	11800	9370
20	11300	11100	12700	12800	3600	3520	9500	24700	28300	14900	11700	8930
21	12000	11100	12700	12800	3410	4110	9690	25400	28300	14200	11700	9000
22	12300	11100	12700	12800	3260	4090	9740	25700	28400	12900	11700	8570
23	12400	11100	11300	12900	3240	4760	13100	25800	28300	12300	12600	8170
24	12300	11100	9930	12900	3200	5300	18500	25800	27400	11900	12600	8040
25	13500	11000	10600	13000	3190	5260	19600	25900	24900	11700	12400	8040
26	14200	11000	10700	12900	3210	6920	19700	25700	22800	11700	12400	7650
27	14300	10900	10800	12900	3180	10700	19700	25800	20900	12500	12500	7630
28	14200	9910	10800	12900	3160	12300	19000	25800	20500	13600	12200	7250
29	14200	9280	10700	12900	3170	12200	18900	25900	20300	14500	12100	7100
30	14200	9290	10700	12800	---	12200	19000	24900	19000	15000	11700	7090
31	11500	---	10800	12800	---	12200	---	23200	---	15600	11600	---
TOTAL	303360	305870	325660	391900	156740	146650	431630	685300	758200	481300	376700	270430
MEAN	9786	10200	10510	12640	5405	4731	14390	22110	25270	15530	12150	9014
MAX	14300	11100	12700	13000	12800	12300	19700	25900	28400	20100	16100	11500
MIN	6850	8610	9520	11000	3160	1280	9500	17900	19000	11700	10700	7090
AC-FT	601700	606700	645900	777300	310900	290900	856100	1359000	1504000	954700	747200	536400

CAL YR 1983 TOTAL 4395570 MEAN 12040 MAX 30000 MIN 2050 AC-FT 8719000
WTR YR 1984 TOTAL 4633740 MEAN 12660 MAX 28400 MIN 1280 AC-FT 9191000

13077657 BONANZA LAKE NEAR AMERICAN FALLS, ID

LOCATION.--Lat 42°42'46", long 113°04'26", in SW1/4 SE1/4 NW1/4, sec.21, T.8 S., R.29 E., Power County, Hydrologic Unit 17040209, on west side 9.5 mi southeast of American Falls.

PERIOD OF RECORD.--December 1982 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 4,240.526 ft National Geodetic Vertical Datum of 1929 (levels by U.S. Geological Survey).

REMARKS.--Bonanza Lake is located in a natural depression in a lava rock shelf and has no natural or manmade surface outlets. It is fed by ground water, precipitation, and runoff. Due to the permeability of the lakebed, some stored water leaves the area by infiltration to the regional aquifer.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4,248.43 ft May 9, 1984; minimum observed elevation, 4,242.46 ft Aug. 14, 1983.

EXTREMES FOR 1983 WATER YEAR.--Maximum elevation, 4,246.93 ft May 18; minimum observed elevation, 4,242.46 ft Aug. 14.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4,248.43 ft May 9; minimum observed elevation, 4,243.40 ft Oct. 1.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---		---	4246.06	4246.42	4246.69	4246.62	4244.61	4242.60	4243.17
2			---		4245.18	4246.08	4246.43	4246.69	4246.58	4244.50	4242.58	4243.21
3			---		4245.18	4246.10	4246.44	4246.68	4246.54	4244.42	4242.55	4243.25
4			---		4245.21	4246.11	4246.44	4246.69	4246.47	4244.39	4242.54	4243.28
5			---		4245.25	4246.12	4246.44	4246.75	4246.43	4244.37	4242.52	4243.33
6			---		4245.25	4246.11	4246.45	4246.75	4246.38	4244.32	4242.50	4243.38
7			---		4245.30	4246.13	4246.46	4246.75	4246.30	4244.33	4242.50	4243.42
8			---		4245.31	4246.13	4246.47	4246.75	4246.23	4244.25	4242.50	4243.46
9			---		4245.34	4246.14	4246.50	4246.73	4246.15	4244.22	4242.50	4243.50
10			4244.47		4245.37	4246.14	4246.50	4246.73	4246.05	4244.16	4242.48	4243.51
11			4244.46		4245.38	4246.16	4246.50	4246.79	4246.00	4244.09	4242.48	4243.56
12			4244.47		4245.41	4246.17	4246.50	4246.83	4245.97	4244.02	4242.48	4243.58
13			4244.50		4245.96	4246.25	4246.50	4246.83	4245.95	4243.93	4242.47	4243.60
14			4244.50		4246.16	4246.26	4246.50	4246.84	4245.95	4243.82	4242.46	4243.58
15			4244.53		4246.12	4246.25	4246.51	4246.86	4245.94	4243.73	4242.50	4243.55
16			4244.53		4246.08	4246.25	4246.51	4246.86	4245.91	4243.64	4242.56	4243.50
17			4244.54		4246.06	4246.26	4246.53	4246.87	4245.89	4243.54	4242.59	4243.45
18			4244.53		4246.07	4246.28	4246.54	4246.93	4245.83	4243.44	4242.63	4243.39
19			4244.54		4246.05	4246.30	4246.55	4246.92	4245.79	4243.34	4242.66	4243.36
20			4244.56		4246.03	4246.31	4246.56	4246.91	4245.65	4243.25	4242.72	4243.35
21			---		4246.03	4246.31	4246.57	4246.90	4245.56	4243.15	4242.73	4243.36
22			---		4246.01	4246.32	4246.58	4246.90	4245.48	4243.07	4242.77	4243.36
23			---		4246.01	4246.34	4246.58	4246.90	4245.39	4243.01	4242.85	4243.36
24			---		4246.03	4246.35	4246.58	4246.89	4245.30	4242.96	4242.91	4243.35
25			---		4246.03	4246.35	4246.38	4246.88	4245.21	4242.93	4242.97	4243.33
26			---		4246.06	4246.35	4246.58	4246.86	4245.12	4242.89	4243.02	4243.31
27			---		4246.06	4246.35	4246.58	4246.82	4245.03	4242.85	4243.07	4243.34
28			---		4246.06	4246.37	4246.59	4246.77	4244.92	4242.78	4243.09	---
29			---		---	4246.36	4246.64	4246.75	4244.83	4242.73	4243.12	---
30			---		---	4246.38	4246.66	4246.69	4244.72	4242.67	4243.12	---
31			---		---	4246.43	---	4246.65	---	4242.64	4243.13	---
MEAN			---		---	4246.24	4246.52	4246.80	4245.81	4243.61	4242.70	---
MAX			---		---	4246.43	4246.66	4246.93	4246.62	4244.61	4243.13	---
MIN			---		---	4246.06	4246.42	4246.65	4244.72	4242.64	4242.46	---

Note.--No gage-height record Dec. 21 to Feb. 2, Sept. 28-30.

13077657 BONANZA LAKE NEAR AMERICAN FALLS, ID--Continued

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4243.49	4245.26	4246.22	---	---	4247.42	4247.96	4248.31	4247.72	---	---	4246.05
2	4243.56	4245.28	4246.25	---	4247.12	4247.42	4247.96	4248.34	4247.62	---	---	4246.10
3	4243.61	4245.34	4246.30	---	4247.13	4247.44	4247.97	4248.37	4247.50	---	---	4246.11
4	4243.68	4245.38	4246.34	---	4247.13	4247.43	4247.97	4248.38	4247.42	---	---	4246.13
5	4243.74	4245.42	4246.34	---	4247.13	4247.44	4247.98	4248.38	4247.32	---	---	4246.15
6	4243.83	4245.46	4246.39	---	4247.15	4247.45	4248.01	4248.39	4247.31	---	---	4246.18
7	4243.90	4245.50	4246.40	---	4247.15	4247.45	4248.03	4248.39	4247.31	---	---	4246.18
8	4243.95	4245.55	4246.42	---	4247.16	4247.45	4248.05	4248.40	4247.23	---	---	4246.19
9	4244.03	4245.57	4246.42	---	4247.16	4247.47	4248.07	4248.41	4247.29	---	---	4246.22
10	4244.12	4245.59	4246.45	---	4247.22	4247.48	4248.09	4248.40	4247.34	---	---	4246.23
11	4244.17	4245.65	4246.46	---	4247.22	4247.51	4248.09	4248.36	4247.40	---	---	4246.25
12	4244.22	4245.69	4246.48	---	4247.22	4247.52	4248.11	4248.27	4247.44	---	---	4246.25
13	4244.31	4245.73	4246.48	---	4247.29	4247.55	4248.11	4248.22	4247.52	---	---	4246.23
14	4244.35	4245.75	4246.51	---	4247.31	4247.72	4248.11	4248.19	4247.57	---	---	4246.23
15	4244.43	4245.76	4246.52	---	4247.31	4247.76	4248.12	4248.17	4247.60	---	---	4246.23
16	4244.48	4245.79	4246.53	---	4247.33	4247.81	4248.13	4248.14	4247.61	---	---	4246.25
17	4244.54	4245.90	4246.53	---	4247.34	4247.83	4248.14	4248.15	4247.58	---	---	4246.25
18	4244.60	4245.91	4246.53	---	4247.34	4247.84	4248.16	4248.16	4247.52	---	---	4246.26
19	4244.65	4245.94	4246.57	---	4247.34	4247.84	4248.17	4248.19	4247.45	---	---	4246.23
20	4244.69	4245.98	4246.57	---	4247.33	4247.90	4248.18	4248.21	4247.34	---	---	4246.21
21	4244.75	4245.98	4246.57	---	4247.35	4247.91	4248.19	4248.21	4247.20	---	4245.82	4246.19
22	4244.82	4245.98	---	---	4247.37	4247.90	4248.20	4248.19	4247.07	---	4245.84	4246.19
23	4244.85	4246.00	---	---	4247.38	4247.91	4248.19	4248.18	4246.95	---	4245.87	4246.20
24	4244.89	4246.07	---	---	4247.38	4247.90	4248.20	4248.12	4246.83	---	4245.91	4246.23
25	4244.93	4246.10	---	---	4247.39	4247.90	4248.21	4248.04	4246.75	4244.32	4245.93	4246.26
26	4244.97	4246.12	---	---	4247.39	4247.92	4248.23	4247.98	4246.70	4244.28	4245.98	4246.29
27	4245.03	4246.12	---	---	4247.38	4247.92	4248.25	4247.95	4246.64	4244.23	4246.01	4246.34
28	4245.06	4246.15	---	---	4247.40	4247.91	4248.25	4247.93	4246.54	4244.03	4246.05	4246.36
29	4245.10	4246.17	---	---	4247.40	4247.92	4248.27	4247.91	---	4243.94	4246.04	4246.39
30	4245.15	4246.19	---	---	---	4247.96	4248.28	4247.88	---	---	4246.04	4246.42
31	4245.20	---	---	4247.13	---	4247.96	---	4247.81	---	---	4246.04	---
MEAN	4244.42	4245.78	---	---	---	4247.70	4248.12	4248.19	---	---	---	4246.23
MAX	4245.20	4246.19	---	---	---	4247.96	4248.28	4248.41	---	---	---	4246.42
MIN	4243.49	4245.24	---	---	---	4247.42	4247.96	4247.81	---	---	---	4246.05

Note.--No gage-height record Dec. 22 to Feb. 2, June 29 to July 24, July 30 to Aug. 20.

13077700 GEORGE CREEK NEAR YOST, UT

LOCATION.--Lat 41°55'07", long 113°28'51", in SE1/4 SW1/4 SW1/4 sec.20, T.14 N., R.14 W., Box Elder County, Hydrologic Unit 17040201, on right bank 1,000 ft upstream from section corner and boundary of Sawtooth National Forest, 4.5 mi southeast of Yost, 5 mi south of Utah-Idaho State line, and 16 mi southwest of Strevell, Idaho.

DRAINAGE AREA.--7.84 mi2.

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft, from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--25 years, 3.16 ft3/s, 5,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 295 ft3/s May 30, 1983, gage height, 1.73 ft; minimum, 1.0 ft3/s July 16-19, 1976, Feb. 5, 1932.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 170 ft3/s May 14, gage height, 1.45 ft; minimum daily, 1.4 ft3/s Apr. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	4.2	3.4	2.3	2.6	2.6	1.6	4.8	74	34	5.9	6.0
2	6.8	5.3	3.4	2.3	2.6	2.3	1.6	5.1	36	28	5.8	6.1
3	6.6	4.7	2.9	2.3	2.6	2.3	1.5	5.2	30	26	5.4	6.0
4	5.0	4.2	3.9	2.3	2.6	2.3	1.4	4.9	28	24	5.4	5.6
5	4.4	4.4	3.4	2.3	2.6	2.3	1.7	4.7	24	22	5.6	5.6
6	4.2	4.2	3.4	2.3	2.6	2.3	2.1	4.2	21	22	5.5	5.6
7	4.1	4.4	3.4	2.3	2.5	2.3	1.8	4.0	20	21	5.6	5.6
8	3.8	3.9	3.1	2.3	2.3	2.3	1.7	5.0	17	19	5.6	5.9
9	4.7	3.5	3.0	2.3	2.3	2.3	1.7	8.9	13	17	5.8	6.1
10	4.4	4.2	3.0	2.3	2.3	2.4	1.9	14	13	15	5.7	6.1
11	4.0	4.2	3.0	2.3	2.3	2.6	1.7	23	13	13	6.3	6.1
12	3.8	4.2	2.9	2.0	2.3	2.6	1.5	47	13	12	6.2	5.6
13	4.4	4.3	2.6	2.0	2.3	2.3	1.6	94	13	11	6.1	5.1
14	4.7	3.9	2.9	2.3	2.1	2.3	2.0	120	15	9.4	5.9	5.1
15	4.2	4.0	2.7	2.3	2.0	2.6	4.5	105	21	9.6	5.6	5.1
16	4.3	4.0	2.4	2.3	2.0	2.6	12	64	27	9.0	6.1	4.6
17	4.3	4.3	2.6	2.3	2.0	2.6	18	47	30	9.3	5.8	4.6
18	4.2	4.1	2.5	2.3	2.0	2.5	17	33	34	10	6.1	4.6
19	4.2	3.0	2.6	2.3	2.0	2.3	13	37	39	10	6.0	4.6
20	4.6	4.4	2.3	2.1	2.0	2.7	10	59	45	10	5.9	4.7
21	4.4	4.1	2.3	1.9	2.0	3.2	7.9	64	45	14	5.6	4.6
22	4.2	3.8	2.3	2.3	2.1	3.1	6.7	42	39	13	5.5	4.6
23	4.9	3.8	2.3	2.3	2.3	3.1	6.4	49	35	10	5.2	4.5
24	5.1	3.8	2.3	2.3	2.1	2.7	6.7	85	31	7.2	5.2	4.2
25	4.5	3.8	2.3	2.3	2.0	2.6	6.5	62	32	6.7	7.5	4.2
26	4.3	3.5	2.3	2.3	2.0	2.6	6.1	52	34	6.3	5.9	4.2
27	4.2	3.4	2.3	2.3	2.1	2.4	6.0	57	32	6.7	5.6	4.2
28	4.2	3.4	2.3	2.3	2.3	2.0	5.4	60	31	6.6	5.6	4.2
29	4.2	3.5	2.4	2.6	2.6	2.0	5.3	72	35	5.9	5.6	4.2
30	4.6	3.5	2.6	2.6	---	2.0	4.5	99	33	6.6	5.6	4.2
31	6.2	---	2.4	2.6	---	1.7	---	93	---	6.0	5.6	---
TOTAL	147.8	120.7	85.3	71.0	65.5	75.9	160.1	1429.3	874	420.3	179.2	151.8
MEAN	4.77	4.02	2.75	2.29	2.26	2.45	5.34	46.1	29.2	13.6	5.78	5.06
MAX	5.8	5.3	3.9	2.6	2.6	3.2	18	120	74	34	7.5	6.1
MIN	3.8	3.0	2.3	1.9	2.0	1.7	1.4	4.0	13	5.9	5.2	4.2
AC-FT	293	239	169	141	130	151	318	2840	1740	834	355	301

CAL YR 1983 TOTAL 6065.7 MEAN 16.6 MAX 240 MIN 2.2 AC-FT 12030
WTR YR 1984 TOTAL 3783.4 MEAN 10.3 MAX 120 MIN 1.4 AC-FT 7500

13078205 RAFT RIVER BELOW ONEMILE CREEK, NEAR MALTA, ID

LOCATION.--Lat 42°04'13", long 113°26'37", in NW1/4 SE1/4 SW1/4 sec.32, T.15 S., R.26 E., Cassia County, Hydrologic Unit 17040210, Bureau of Land Management lands, on left bank 64 ft downstream from county road crossing, 300 ft downstream from Onemile Creek, 16 mi southwest of Malta, and at mile 44.3.

DRAINAGE AREA.--433 mi2. Mean altitude, 6,300 ft.

PERIOD OF RECORD.--September 1946 to December 1953, May 1955 to June 1971, October 1975 to May 1984 (destroyed by flood of May 1984). Records since October 1975 equivalent to earlier records published as "at Peterson Ranch, near Bridge" (station 13078000) except for unusually heavy rainstorm runoff from Onemile Creek drainage.

GAGE.--Water-stage recorder. Altitude of gage is 4,940 ft, from topographic map. Prior to October 1975 at site 0.4 mi upstream at different datum.

REMARKS.--Records fair. Diversions above station for irrigation of about 16,000 acres, 1966 determination.

AVERAGE DISCHARGE.--30 years (1947-53, 1955-70, 1976-83), 18.9 ft3/s, 13,690 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,250 ft3/s Jan. 14, 1980, gage height, 8.20 ft; from rating curve extended above 70 ft3/s on basis of slope area measurement of peak flow; minimum, 0.8 ft3/s Jan. 23, 1961, gage height, 1.02 ft, site and datum then in use, result of ice jam upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period Oct. 1 to May 15, 720 ft3/s May 15 on basis of slope area measurement of peak flow; minimum daily, 14.0 ft3/s Oct. 9.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Apr. 18 to May 15)

3.8	13	4.6	113
4.0	28	4.8	175
4.2	49	5.0	242
4.4	79	5.2	335

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	24	29	30	27	105	70	231				
2	17	24	28	25	29	160	72	238				
3	18	24	29	25	26	90	68	283				
4	19	24	29	30	25	59	64	360				
5	18	23	27	32	26	47	65	297				
6	17	23	22	33	26	52	83	235				
7	15	24	26	33	27	116	94	188				
8	18	22	30	32	27	194	89	197				
9	14	23	33	33	27	214	99	231				
10	15	24	33	32	29	148	105	270				
11	15	24	33	31	28	157	111	293				
12	16	24	35	32	27	116	92	335				
13	16	25	35	32	42	108	88	360				
14	18	25	33	30	279	118	98	416				
15	15	25	34	24	94	108	112	620				
16	15	25	29	22	57	108	169	---				
17	16	25	33	25	50	90	279	---				
18	17	27	29	22	46	71	335	---				
19	17	29	31	23	42	73	302	---				
20	16	28	27	22	40	79	210	---				
21	17	27	20	23	42	95	181	---				
22	19	25	19	24	47	94	172	---				
23	18	25	20	25	41	89	224	---				
24	19	29	22	30	40	99	228	---				
25	21	29	23	44	44	81	204	---				
26	25	25	25	47	40	81	157	---				
27	24	24	27	41	39	76	140	---				
28	23	29	24	39	38	75	157	---				
29	23	29	26	36	43	72	163	---				
30	23	24	27	32	---	70	166	---				
31	24	---	29	29	---	65	---	---				
TOTAL	567	757	863	940	1339	3110	4387	---				
MEAN	18.3	25.2	27.8	30.3	46.1	100	146	---				
MAX	25	29	35	47	279	214	335	---				
MIN	14	22	19	22	25	47	64	---				
AC-FT	1120	1500	1710	1860	2650	6170	8700	---				

CAL YR 1983 TOTAL 17422.4 MEAN 47.7 MAX 279 MIN 3.8 AC-FT 34560

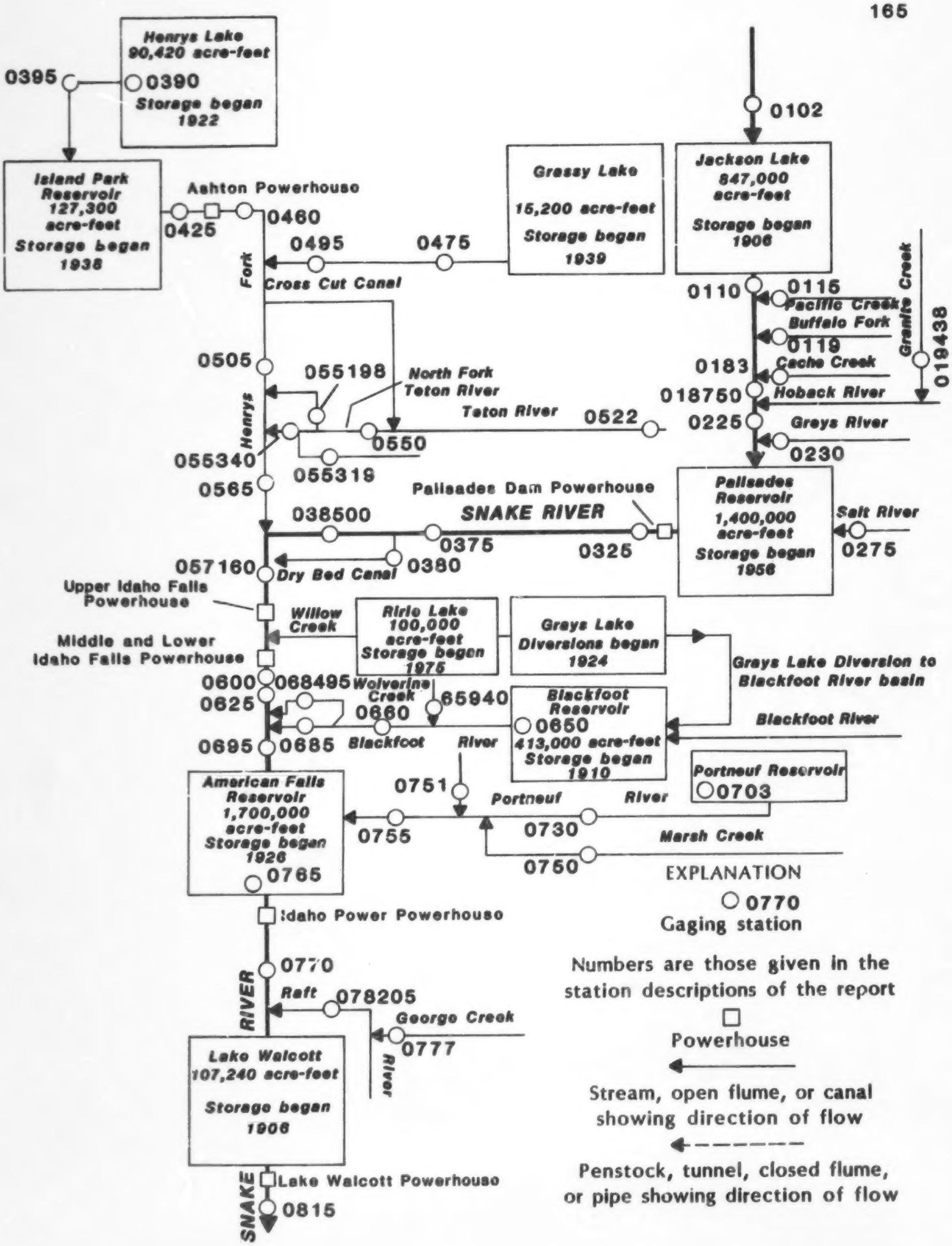
Henrys Lake
90,420 acre-feet
0390
Storage began
1922
0395
Island Park
Reservoir
127,300
acre-feet
Storage began
1938
Ashton Powerhouse
0425
0460
0495
0475
Grassy Lake
15,200 acre-feet
Storage began
1939
0102
Jackson Lake
847,000
acre-feet
Storage began
1906
Cross Cut Canal
Fork
Henrys
0110
0115
Pacific Creek
Buffalo Fork
0119
Granite Creek
019438
0183
Cache Creek
018750
Hoback River
0225
Greys River
0230
0505
055198
North Fork
Teton River
Teton River
0522
0550
055340
055319
0565
Palisades Dam Powerhouse
SNAKE RIVER
038500
0375
0325
Palisades
Reservoir
1,400,000
acre-feet
Storage began
1956
Salt River
0275
0380
057160
Dry Bed Canal
Upper Idaho Falls
Powerhouse
Willow
Creek
Ririe Lake
100,000
acre-feet
Storage began
1975
Grays Lake
Diversions began
1924
Grays Lake Diversion to
Blackfoot River basin
Middle and Lower
Idaho Falls Powerhouse
0600
068495
Wolverine
Creek
65940
0625
0660
Blackfoot
Reservoir
0650
413,000 acre-feet
Storage began
1910
Blackfoot River
0695
0685
Blackfoot
River
American Falls
Reservoir
1,700,000
acre-feet
Storage began
1926
0765
0751
Portneuf
River
Portneuf Reservoir
0703
0755
0730
Marsh Creek
0750
Idaho Power Powerhouse
0770
RIVER
Raft
078205
George Creek
0777
River
Lake Walcott
107,240 acre-feet
Storage began
1906
Lake Walcott Powerhouse
SNAKE
0815
EXPLANATION
0770
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow

Figure 15. -- Gaging stations in upper Snake River basin between Jackson Lake and Minidoka.

13081500 SNAKE RIVER NEAR MINIDOKA, ID

LOCATION.--Lat 42°40'23", long 113°29'58", in SW1/4 NE1/4 sec.2, T.9 S., R.25 E., Minidoka County, Hydrologic Unit 17040209, on right bank 1 mi downstream from Minidoka Dam, 6 mi south of Minidoka, and at mile 673.5.

DRAINAGE AREA.--15,700 mi2, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--August 1895 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "below Minidoka Dam, at Howell's Ferry" 1911. Records for August 1895 to Apr. 20, 1910, at site 6 mi downstream "at Montgomery Ferry."

REVISED RECORDS.--WSP 1347: 1911.

GAGE.--Water-stage recorder. Datum of gage is 4,132.2 ft National Geodetic Vertical Datum of 1929 (river-profile survey). Prior to Apr. 21, 1910, nonrecording gage at site 6 mi downstream at different datum. Apr. 21, 1910, to Aug. 28, 1911, nonrecording gage at present site and datum.

REMARKS.--Records good. Flow regulated by American Falls Reservoir, Lake Walcott, and other reservoirs, having a combined usable capacity of about 4,700,000 acre-ft. Diversions above station for irrigation of about 125,000 acres below and about 1,200,000 acres above station of which about 304,000 acres are by withdrawals from ground water (1966 determination). Considerable water leaks into the Snake Plain aquifer above station.

AVERAGE DISCHARGE.--58 years (1927-84), 6,403 ft3/s, 4,639,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,500 ft3/s May 29, 30, 1897, gage height, 12.5 ft, former site and datum; minimum, 37 ft3/s Jan. 28, Feb. 4, 11, 15, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,400 ft3/s June 15, gage height, 12.44 ft; minimum, 1,170 ft3/s Mar. 13, gage height 3.66 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 20 to Feb. 1; shifting-control method used Apr. 19 to Sept. 30)

3.5	1030	8.0	11000
4.0	1530	9.0	14400
5.0	3000	10.0	18000
6.0	5130	11.0	21600
7.0	7870	12.0	25400
		13.0	29200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6770	11900	10400	12100	13300	3490	11900	19900	22800	14600	14400	9730
2	6760	10200	10400	12200	13300	3510	12200	20300	22700	16300	14500	9280
3	6670	9660	10500	12700	12200	3490	12400	20900	22500	16100	13700	8900
4	6500	9840	10300	13200	11600	3480	12500	21000	22700	16000	13100	8770
5	6660	9900	9950	13300	11500	3480	12600	21000	22600	16700	12100	8730
6	6690	9920	10600	13400	11100	3490	12800	21000	23500	17100	10200	9000
7	6870	9890	10700	13500	9640	3510	13100	20500	24600	17100	8930	8590
8	7080	11000	10500	13600	7120	3510	13400	21100	25100	16800	8820	7910
9	7210	12100	10500	13700	6040	3520	14000	20700	25400	16400	8530	7570
10	7250	12400	10400	13800	5820	3520	14400	20200	25200	15600	8710	7420
11	7270	12300	10600	13800	5640	3560	14700	19700	25300	14600	9210	7930
12	8890	12100	10400	13800	5520	1380	14900	19000	25500	13400	9340	7310
13	9160	12000	10600	13700	5520	1230	15000	18400	25600	11200	9160	7910
14	7410	12200	10700	13500	5990	2940	15100	18300	26000	10100	9070	7900
15	8580	12800	10600	13400	5690	4020	15100	19100	26100	10100	9010	7710
16	9610	13000	11400	13200	4410	3940	15200	21000	26100	9870	9490	7630
17	10000	13400	12800	13100	3810	3690	14600	22400	26100	9590	9340	7530
18	10800	14200	13400	13000	3800	3650	14100	22900	26100	9420	9260	7440
19	11600	14100	13600	13100	3780	3550	13100	23100	25900	9540	9470	7350
20	12300	13200	12500	13100	3810	3800	10100	23500	26000	10700	9620	7350
21	12900	13500	12500	13200	3790	4430	9850	24700	25900	10600	9580	7750
22	13500	14400	12000	13200	3820	4380	10100	25300	26000	10200	9560	7410
23	13500	13500	12000	13400	3560	4380	12800	25000	26000	9870	10000	7080
24	13500	12400	12000	13400	3490	4480	17200	25000	25700	9670	10300	6990
25	14400	12200	11900	13300	3840	4450	19700	25000	24500	9590	9850	6620
26	15600	12200	12000	13300	3690	5430	20400	24800	21300	9930	9380	6260
27	15600	12200	12100	13200	3610	8570	20700	25100	19000	10500	10000	6290
28	15500	11900	12000	13200	3540	10300	20500	25000	17900	11700	9910	6370
29	15500	11200	12000	13200	3490	10700	19900	24900	18000	12600	9650	6270
30	15500	10800	12100	13200	---	11200	19900	24400	17300	13200	9610	6040
31	14300	---	12100	13100	---	11500	---	22500	---	14000	9780	---
TOTAL	323880	360610	353550	410900	182420	146780	442250	685700	717400	395380	314080	229820
MEAN	10450	12020	11400	13250	6290	4735	14740	22120	23910	12750	10130	7661
MAX	15600	14400	13600	13800	13300	11500	20700	25300	26100	17100	14500	9730
MIN	6500	9840	9950	12100	3490	1230	9850	18300	17300	9420	8530	6040
AC-FT	642400	715300	701300	815000	361800	291100	877200	1360000	1423000	784200	623000	455800

CAL YR 1983	TOTAL	4270040	MEAN	11700	MAX	25600	MIN	1390	AC-FT	8470000
WTR YR 1984	TOTAL	4562770	MEAN	12470	MAX	26100	MIN	1230	AC-FT	9050000

13082500 GOOSE CREEK ABOVE TRAPPER CREEK, NEAR OAKLEY, ID

LOCATION.--Lat 42°07'30", long 113°56'20", in sec.13, T.15 S., R.21 E., Cassia County, Hydrologic Unit 17040211, on right bank 0.2 mi upstream from maximum flow line of Oakley Reservoir, 5 mi upstream from Trapper Creek, 5 mi south of Oakley Dam, 9 mi southwest of Oakley, and at mile 35.1.

DRAINAGE AREA.--633 mi2. Mean altitude, 6,030 ft.

PERIOD OF RECORD.--April 1911 to September 1916, March 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,770 ft, by barometer. Prior to Aug. 29, 1912, at site 200 ft downstream at different datum.

REMARKS.--Records good. Decreed water rights are reported to apply to about 2,700 acres above station. Diversions for irrigation are made as flow permits to a major part of this acreage. Flow of artesian well, completed in 1935, enters below station. Pumps on four wells above and one below gage may occasionally discharge into the channel. Practically entire flow passing station is stored in Oakley Reservoir (see sta 13083000).

AVERAGE DISCHARGE.--70 years, 48.4 ft3/s, 35,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,240 ft3/s Feb. 11, 1962, gage height, 9.7 ft, determined from slope-area measurement of peak flow; no flow July 22 to Aug. 10, Aug. 22-30, 1934, Aug. 15 to Oct. 3, 1935, July 24 to Sept. 25, 1940, Sept. 14, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,590 ft3/s May 15, gage height, 7.29 ft; minimum 14 ft3/s Dec. 6.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1 to Apr. 13, May 6-11, 17-21; stage-discharge relation
affected by ice Nov. 22, 25, 29, Dec. 3, 4, 7-21, Feb. 15 to Mar. 1)

1.7	21	4.0	346
2.0	43	5.0	620
2.5	92	6.0	990
3.0	156	7.0	1440

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	33	21	39	41	75	102	238	635	129	65	39
2	38	35	34	32	38	61	100	265	605	130	92	41
3	26	34	35	38	40	55	95	265	557	118	71	40
4	32	33	39	47	37	50	101	318	515	104	72	39
5	30	32	32	45	36	41	104	356	497	103	66	38
6	27	31	22	40	37	45	123	360	491	97	62	42
7	25	31	46	43	37	54	118	344	456	99	53	41
8	24	32	45	41	36	59	115	320	430	95	56	44
9	25	31	50	46	36	66	122	329	406	89	54	43
10	26	31	56	41	36	76	123	372	384	81	52	41
11	27	30	52	45	33	90	139	420	370	76	51	40
12	27	31	49	49	40	105	128	482	341	74	49	39
13	27	33	46	43	57	103	122	557	309	73	50	36
14	31	34	44	40	39	110	122	770	286	70	52	37
15	36	33	41	35	35	129	123	1320	265	66	51	37
16	39	32	38	32	43	126	167	1140	267	65	53	35
17	34	32	42	31	39	114	213	1030	257	64	55	38
18	31	36	38	24	35	103	267	910	244	64	54	37
19	30	37	39	28	30	96	278	758	238	62	52	39
20	28	38	28	31	35	114	257	701	230	63	51	40
21	27	35	23	35	47	142	268	729	208	73	48	39
22	27	31	21	38	45	137	233	796	199	109	45	39
23	26	32	23	42	40	126	235	796	192	100	45	39
24	28	39	26	47	43	121	261	774	181	95	45	39
25	28	48	31	54	49	109	253	798	172	83	44	40
26	27	40	38	50	47	107	297	782	161	73	44	41
27	27	26	42	45	45	110	286	722	150	74	44	41
28	27	37	33	44	56	102	259	718	143	73	42	41
29	28	31	40	41	61	95	242	698	133	74	40	41
30	29	25	43	38	---	102	235	653	135	73	39	41
31	31	---	45	40	---	98	---	641	---	65	39	---
TOTAL	903	1003	1165	1244	1195	2927	5533	19379	9457	2614	1641	1155
MEAN	29.1	33.4	37.6	40.1	41.2	94.4	184	625	315	84.3	52.9	38.5
MAX	39	48	56	54	61	142	297	1320	635	130	92	44
MIN	24	25	21	24	30	41	95	238	133	62	39	35
AC-FT	1790	1990	2310	2470	2370	5810	10970	38440	18760	5180	3250	2350

CAL YR 1983	TOTAL	26858	MEAN	73.6	MAX	385	MIN	14	AC-FT	53270
WTR YR 1984	TOTAL	48247	MEAN	132	MAX	1320	MIN	21	AC-FT	95700

Note.--No gage-height record Nov. 5-21, Dec. 22 to Feb. 14, May 15-17.

13083000 TRAPPER CREEK NEAR OAKLEY, ID

LOCATION.--Lat 42°10'10", long 113°58'20", in NW1/4 SE1/4 NW1/4 sec.34, T.14 S., R.21 E., Cassia County, Hydrologic Unit 17040211, on left bank 4 mi upstream from Oakley, 7 mi southwest of Oakley, and at mile 3.0.
DRAINAGE AREA.--53.7 mi2. Mean altitude, 6,360 ft.
PERIOD OF RECORD.--May 1911 to September 1916, March 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.
REVISED RECORDS.--WSP 1063: 1941, 1943. WSP 1567: Drainage area.
GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,820 ft, by barometer. Prior to Sept. 1, 1912, water-stage recorder at approximately present site at different datum, Apr. 8, 1913, to Sept. 30, 1916, and Mar. 23, 1919, to Aug. 15, 1931, at site 1 mi upstream at different datum. Sept. 1, 1912, to Apr. 7, 1913, nonrecording gage at site 0.8 mi downstream at different datum.
REMARKS.--Records good. Small diversions above station for irrigation. Diversion and return flow for fish ponds just above station since 1979. Flow of artesian well, completed in 1936, enters above. Practically entire flow passing station is stored in Oakley Reservoir (see sta 13083500).
AVERAGE DISCHARGE.--70 years, 15.4 ft3/s 11,160 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 270 ft3/s Aug. 17, 1941, gage height, 6.99 ft during cloudburst, from rating curve extended above 100 ft3/s on basis of velocity-area studies and peak flow over weir (a higher flow may have occurred during cloudburst Aug. 15, 1931); minimum, 1.3 ft3/s Jan. 1, 1970, gage height, 4.53 ft.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 176 ft3/s May 15, gage height, 6.66 ft; minimum 3.3 ft3/s Jan. 15, gage height, 4.68 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used May 15, Aug. 8 to Sept. 30)

4.8	6.8	5.5	55.0
4.9	11.0	5.7	75.0
5.1	23.0	6.0	107.0
5.3	38.0	6.3	143.0
		6.6	182.0

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	13	13	14	14	18	39	129	45	34	13
2	13	13	13	13	13	14	17	43	117	44	45	12
3	12	13	13	13	14	13	17	49	108	42	43	12
4	12	13	13	13	13	13	18	55	97	39	36	12
5	12	13	11	14	14	13	18	55	97	38	32	13
6	12	13	13	13	14	13	20	50	106	37	32	13
7	12	13	17	13	14	14	18	48	106	37	29	12
8	12	13	16	13	14	15	19	50	89	36	28	11
9	13	13	14	12	14	17	20	57	81	34	28	11
10	13	13	14	12	14	18	22	65	77	33	26	11
11	12	13	14	12	14	18	20	75	73	32	24	11
12	12	13	13	12	14	18	20	88	70	32	22	11
13	12	14	13	12	18	17	20	109	67	31	19	11
14	13	13	13	11	18	18	21	138	64	30	18	14
15	12	13	13	9.7	15	18	24	150	66	29	18	16
16	12	13	12	9.7	15	18	29	142	67	28	19	17
17	12	15	12	9.5	15	18	37	130	65	27	20	15
18	12	14	12	9.0	14	16	39	113	65	26	22	16
19	12	13	12	11	14	16	38	114	64	26	21	15
20	12	13	12	11	13	17	36	119	62	26	20	14
21	12	13	9.7	13	13	20	33	132	62	29	18	13
22	12	12	8.5	16	13	20	34	132	61	28	15	12
23	12	12	8.9	15	13	20	38	133	58	40	13	12
24	12	12	9.7	16	13	20	40	141	54	47	13	13
25	12	13	14	17	13	19	40	137	52	43	13	13
26	12	12	18	15	13	20	39	125	50	42	13	13
27	12	12	17	14	13	18	37	127	48	44	12	13
28	12	12	14	14	13	18	36	123	46	46	11	13
29	13	12	13	14	13	18	36	107	45	54	12	13
30	13	12	14	14	---	17	35	133	44	39	11	12
31	14	---	14	14	---	17	---	133	---	36	13	---
TOTAL	381	386	403.8	397.9	405	525	839	3112	2192	1120	680	389
MEAN	12.3	12.9	13.0	12.8	14.0	16.9	28.0	100	73.1	36.1	21.9	13.0
MAX	14	15	18	17	18	20	40	150	129	54	45	17
MIN	12	12	8.5	9.0	13	13	17	39	44	26	11	11
AC-FT	756	766	801	789	803	1040	1660	6170	4350	2220	1350	772

CAL YR 1983 TOTAL 7287.4 MEAN 20.0 MAX 70 MIN 8.5 AC-FT 14450
WTR YR 1984 TOTAL 10830.7 MEAN 29.6 MAX 150 MIN 8.5 AC-FT 21480

13083500 OAKLEY RESERVOIR NEAR OAKLEY, ID

LOCATION.--Lat 42°11'50", long 113°54'50", in sec.19, T.14 S., R.22 E., Cassia County, Hydrologic Unit 17040211, just upstream from right abutment of Oakley Dam on Goose Creek, 4 mi southwest of Oakley, and at mile 29.9.

DRAINAGE AREA.--729 mi2.

PERIOD OF RECORD.--October 1912 to current year.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Nonrecording gage. Supplemental recording gage from May 17 to June 2, 1984. Altitude of gage is 4,630 ft, by barometer.

REMARKS.--Reservoir is formed by earth dam constructed in 1911-13; storage began in 1911. Usable capacity, 77,400 acre-ft between gage heights 0.0 ft, bottom of diversion tunnel, and 138.4 ft crest of spillway raised in May 1984 from 136.0 ft. Dead storage negligible. Water is used for irrigation of lands along Goose Creek in Oakley Canal Co. project. Figures given herein represent usable contents.

COOPERATION.--Gage readings and capacity table furnished by Oakley Canal Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 75,600 acre-ft May 22, 1984, gage height, 137.0 ft; reservoir drained at close of irrigation season in 1915, 1919-20, 1926, 1933, 1950, 1959, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 75,600 acre-ft May 22, gage height, 137.0 ft; minimum observed, 34,800 acre-ft Sept. 29, gage height, 93.6 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

90.0	32100	120.0	57200
100.0	39800	130.0	67400
110.0	48200	137.0	75600

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	72500	---	---	---
2	---	---	---	41000	---	---	50500	55600	72000	63300	---	---
3	---	---	---	---	---	---	---	55900	---	---	---	---
4	34900	---	---	---	---	---	---	59300	71300	---	---	---
5	---	---	---	41000	---	45600	---	59700	---	---	---	---
6	---	---	---	---	43400	---	---	---	---	---	47100	---
7	---	36900	---	---	---	---	---	60500	69900	---	---	---
8	---	---	---	---	---	---	---	60900	---	---	---	---
9	---	---	---	---	---	---	51700	61100	---	58200	46300	---
10	---	---	---	---	---	---	---	61300	69600	---	---	38400
11	---	---	---	---	---	---	---	61700	69600	---	---	---
12	---	---	---	---	---	46100	---	62300	69700	57200	---	---
13	---	---	---	---	---	---	52500	63000	69600	56600	---	---
14	---	37300	39700	---	44100	46700	---	64300	69600	---	45100	---
15	---	---	---	---	44200	---	---	65400	69300	---	---	---
16	35600	---	---	---	---	---	---	69100	---	54500	---	37100
17	---	---	---	42000	---	---	53400	71500	---	---	---	---
18	---	37400	---	---	---	---	---	73200	69700	---	---	---
19	---	---	---	---	---	47700	---	74200	---	---	---	---
20	---	---	---	---	---	---	---	75100	68300	---	43900	---
21	---	---	---	---	44600	---	---	75500	---	---	---	---
22	---	---	---	---	---	48400	---	75600	---	---	43100	---
23	---	---	---	---	---	---	56000	75400	---	---	---	---
24	---	---	---	---	---	---	---	75200	---	---	---	35400
25	---	---	---	---	---	---	56600	75100	66800	---	---	---
26	---	---	---	---	---	49300	56900	75000	---	---	---	---
27	---	---	---	---	---	---	57400	74600	65600	---	---	---
28	---	---	---	---	45200	---	---	74400	---	---	---	---
29	---	---	---	---	45300	---	58000	74000	---	---	---	34800
30	---	38500	---	42900	---	---	58200	73500	64000	48400	40900	34800
31	36300	---	40800	43000	---	50100	---	73000	---	48200	40700	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---
(†)	95.6	98.4	101.3	103.9	106.6	112.2	121.0	134.9	126.8	110.0	101.1	93.6
(‡)	+1700	+2200	+2300	+2200	+2300	+4800	+8100	+14800	-9000	-15300	-7500	-5900

CAL YR 1983.........‡+15800
WTR YR 1984.........‡+ 200

†Gage height, in feet, at end of month
‡Change in contents, in acre-feet

13087900 LAKE MILNER AT MILNER DAM, ID

LOCATION.--Lat 42°31'25", long 114°00'47", in SW1/4 NE1/4 SE1/4 sec.29, T.10 S., R.21 E., Twin Falls County, Hydrologic Unit 17040209, near left end of Milner Dam on Snake River, at Milner, at mile 640.0.

DRAINAGE AREA.--17,180 mi2, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder.Datum of gage is 4,122.51 ft National Geodetic Vertical Datum of 1929. October 1974 to May 1978, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by a concrete gravity dam constructed in 1904 with first diversions in 1905. The dam is primarily a diversion dam. The capacity table was revised in 1984. Capacity is a function of the riverflow and the lake elevation at the dam. No precise limits on capacity can be set, but computations indicate 50,200 acre-ft of usable storage at a lake gage of 11.5 ft and a riverflow of 30,000 ft3/s, and 11,200 acre-ft at a gage of 1.5 ft and a riverflow of 500 ft3/s. Dead storage is 3,000 acre-ft. Water is used for irrigation by canals diverting at the dam and by pumps from the reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 46,700 acre-ft June 18, 1984; maximum gage height, 11.62 ft June 26, 1979; minimum contents, 14,100 acre-ft Mar. 16, 1983, gage height, 2.09 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 46,700 acre-ft June 18, gage height, 10.73 ft; maximum gage height, 11.15 ft July 20; minimum contents, 18,900 acre-ft Mar. 2, 5-7, 9, 10; minimum gage height, 3.74 ft Feb. 21.

REVISIONS.--The minimum contents figure for the period of record has been revised to 14,100 acre-ft Mar. 16, 1983, gage height, 2.09 ft, superseding figure published in WDR 1983.

CONTENTS (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36000	30900	26900	29000	30000	19000	32700	40900	44400	41600	40400	38300
2	35400	29900	26800	29100	30000	18900	33200	41200	44200	41300	40400	37800
3	35200	29600	26900	29300	29100	19000	33300	42000	44600	41300	40000	37300
4	34900	29500	26800	29600	29500	19000	33200	41900	44500	41100	39700	37100
5	34800	29600	26900	29700	28200	18900	33300	41800	44700	41400	39400	35700
6	34500	29600	27400	29900	27700	18900	33300	42100	45000	41900	38700	37200
7	34900	29300	27200	30100	25900	18900	33500	41400	45700	41900	37600	37300
8	34600	30300	26900	30200	22000	19000	33200	42100	45600	41700	37600	37100
9	34900	30800	26900	30300	20500	18900	34100	41600	45800	41500	37000	36900
10	34700	30900	26800	30400	20700	18900	34500	41400	45700	41100	36700	35700
11	34600	30300	27400	30300	20900	19400	35000	41300	45500	40600	37200	36500
12	35600	30100	27300	30400	20800	19400	35300	41000	45800	39500	37700	36300
13	35600	30200	27500	30300	20800	19400	35600	41000	45700	38900	37500	36400
14	35900	30500	27600	30100	21200	21800	35900	40700	46100	38400	37400	35900
15	34700	30900	27100	30100	21000	26500	35800	41300	46100	38600	37400	35900
16	35000	30800	28000	29900	19900	28300	35700	42600	46100	38300	38200	36300
17	35500	30900	29400	30000	19000	27800	35400	43600	46200	39000	37900	36500
18	36400	31500	29900	29600	19000	28600	35600	43700	46700	37400	37700	36600
19	35900	31600	29900	29300	19000	27900	35300	43700	46600	38400	37900	36400
20	36200	30700	29200	30100	19400	27100	35200	44200	45800	39000	38100	36300
21	36200	30900	27900	30300	19700	26700	34500	44800	46500	38900	38000	36800
22	36400	31800	29000	30200	19800	27200	34200	45200	46500	38600	37900	36900
23	36400	30900	30500	30300	19400	27300	34900	45000	46500	38400	38500	36400
24	35500	29600	30200	30200	19000	26900	36800	45100	46300	38100	38500	36500
25	34300	29600	29400	30100	19400	27300	39600	45100	45500	38000	38300	36100
26	34200	29500	29200	30100	19500	28100	40400	44800	43500	38500	38300	35500
27	33700	29100	29200	30000	19400	32000	40300	45100	42500	38700	38500	35600
28	33600	28800	29100	30000	19100	33400	40100	45000	42100	39100	38200	35800
29	33600	27900	29000	30300	19100	32800	40500	45300	41900	39400	37900	35900
30	33600	27300	29100	30000	---	32500	40700	45500	41800	39700	37800	35500
31	32700	---	29000	29800	---	32500	---	44600	---	40300	37700	---
MEAN	35000	30100	28200	30000	22000	24600	35700	43100	45100	39700	38200	36400
MAX	36400	31800	30500	30400	30000	33400	40700	45500	46700	41900	40400	38300
MIN	32700	27300	26800	29000	19000	18900	32700	40700	41800	37400	36700	35500
(†)	7.57	5.54	5.99	6.31	4.30	8.32	9.95	10.98	10.95	11.02	10.62	10.79
(‡)	-1800	-5400	+1700	+800	-10700	+13600	+8200	+3700	-2600	-1500	-2600	-2200

CAL YR 1983...... ‡ +3200
WTR YR 1984...... ‡ +1000

(†) Gage height, in feet, at end of month.
(‡) Change in contents, in acre-feet, at end of month.

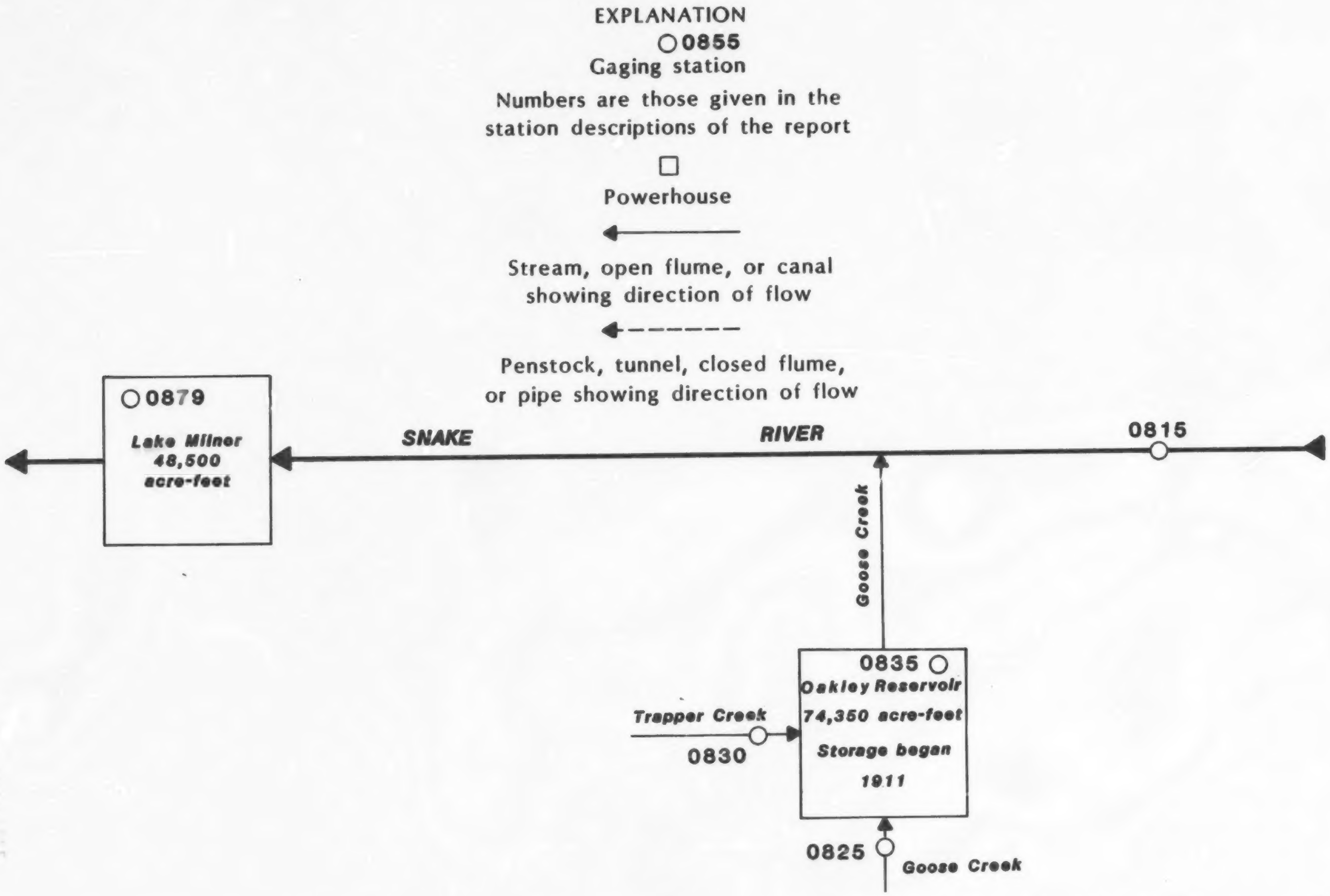
EXPLANATION
0855
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow
0879
Lake Milner
48,500
acre-feet
SNAKE
RIVER
0815
Goose Creek
0835
Oakley Reservoir
74,350 acre-feet
Storage began
1911
Trapper Creek
0830
0825
Goose Creek

Figure 16. -- Gaging stations in Snake River basin between Minidoka and Milner.

13088000 SNAKE RIVER AT MILNER, ID

LOCATION.--Lat 42°31'41", long 114°01'04", in SW1/4 NE1/4 sec.29, T.10 S., R.21 E., Twin Falls County, Hydrologic Unit 17040212, on left bank 200 ft downstream from highway bridge at Milner, 0.4 mi downstream from Milner Dam, and at mile 638.7.

DRAINAGE AREA.--17,180 mi2, approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--May 1909 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1347: 1909-12, 1915-16, 1942-44, 1946-48.

GAGE.--Water-stage recorder. Datum of gage is 4,062.9 ft National Geodetic Vertical Datum of 1929. Prior to May 20, 1919, nonrecording gages at slightly different sites and datums.

REMARKS.--Records good. Flow regulated by American Falls Reservoir, Lake Walcott, and other reservoirs having a combined usable capacity of about 4,700,000 acre-ft. Considerable water leaks into the Snake Plain aquifer above station. Diversions above station for irrigation of about 1,990,000 acres of which about 504,000 acres are by withdrawals from ground water and about 436,000 acres are irrigated below station. Return flow in large part enters Snake River between Milner and King Hill station. At times practically entire flow is diverted during irrigation season.

COOPERATION.--Observer readings furnished by Twin Falls Canal Co. and North Side Canal Co.

AVERAGE DISCHARGE.--58 years (1927-84), 2,711 ft³/s, 1,964,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,000 ft3/s June 21, 1918, gage height, 19.9 ft, site and datum then in use; minimum, 0 ft3/s Mar. 17-28, 1936, Aug. 9 to Sept. 7, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,300 ft3/s June 14, gage height, 19.62 ft; minimum, 299 ft³/s July 19, 20, gage height, 3.88 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1-12 and Nov. 19 to July 6)

3.5	215	6.0	1390
4.0	341	8.0	3700
4.5	511	12.0	7670
5.0	734	16.0	13900
		20.0	22400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2630	12300	10800	12800	14200	3950	11700	16400	15900	8210	6200	2170
2	2670	10100	10500	13900	14000	4000	12100	16400	14100	7570	6290	2110
3	2660	8960	10700	13300	13000	4050	12700	16800	15200	7140	6000	1940
4	2650	8900	9600	14000	12200	4000	13000	17200	15700	7190	5320	1770
5	2910	8900	7700	14000	12000	3950	12900	16700	15400	7740	4740	1750
6	2960	8930	12200	14100	11600	3930	12700	16900	16500	9070	3280	1560
7	3010	8610	11800	14200	10300	3910	13200	16600	17400	9220	1360	1720
8	3480	9370	10900	14200	7350	3920	13600	16600	18900	7910	1250	1400
9	3340	11200	10600	14300	6850	3930	13600	16000	19400	7420	1020	965
10	4420	11800	10500	14400	6400	3940	13900	15400	19500	6940	928	955
11	5550	11900	10700	14500	6200	3750	14000	14400	19500	5920	934	1510
12	6300	11700	10200	14500	6100	2300	14300	13900	20400	4470	1170	1720
13	7840	11300	10700	14400	6100	1420	14500	13000	20700	2670	1010	1710
14	4030	11300	10800	14100	6500	1430	14700	13000	20900	1090	1030	1790
15	7760	12200	11300	14000	6400	1930	14700	13400	20900	975	1020	1740
16	7660	13000	11100	13500	5000	3290	14500	15400	20900	1030	1420	1790
17	7660	13000	12500	13700	4200	3640	13600	17300	20900	608	1660	1540
18	8140	13400	13400	13700	4000	4020	13100	17300	20300	495	1530	1760
19	9570	14100	13800	13700	3900	4310	12200	17700	20200	329	1310	1540
20	10300	13800	12900	13400	3850	4650	9560	17100	20000	1210	1090	1750
21	10600	13000	11500	13900	3600	4620	9230	18600	19700	1760	1490	1730
22	11700	14200	10500	13900	4000	4760	8760	19700	19900	2030	1300	2240
23	11600	13400	10800	14000	4100	4850	9050	19200	19600	2010	1510	1990
24	13200	12500	12000	14000	4000	4710	14200	18500	19300	1800	2270	1440
25	14500	11500	12400	14000	3900	4810	16600	19000	18200	1340	2120	2270
26	15700	12700	12500	14000	4050	4830	15100	18500	15600	1390	2090	1930
27	15500	13000	12600	14100	4100	6570	15900	19000	12300	1770	2050	1370
28	15300	12600	12600	14100	4050	10000	15100	18600	9970	2950	2170	1960
29	15300	12200	12400	14100	4000	11400	15900	17900	9660	4420	1840	2060
30	15300	11200	12500	14200	---	11700	15700	17200	9040	5110	1510	1980
31	14800	---	12600	14200	---	11800	---	15300	---	5500	1540	---
TOTAL	259150	351070	355100	432800	196450	150570	410100	519800	528650	125790	69112	53641
MEAN	8360	11700	11450	13960	6774	4857	13670	16770	17620	4058	2229	1788
MAX	15700	14200	13800	14500	14200	11800	15900	19700	20900	9220	6290	2270
MIN	2630	8610	7700	12800	3600	1420	8560	13000	9040	329	928	955
AC-FT	514000	696300	704300	858500	389700	298700	813400	1031000	1049000	249500	137100	106400

CAL YR 1983	TOTAL	3064905	MEAN	8397	MAX	19200	MIN	74	AC-FT 6079000
WTR YR 1984	TOTAL	3452233	MEAN	9432	MAX	20900	MIN	329	AC-FT 6848000

Note.--No gage-height record Nov. 21 to Mar. 6.

13090000 SNAKE RIVER NEAR KIMBERLY, ID

LOCATION.--Lat 42°35'28", long 114°21'34", in NE1/4 NW1/4 sec.4, T.10 S., R.15 E., Twin Falls County, Hydrologic Unit 17040212, on left bank 1,200 ft downstream from Twin Falls powerplant, 2.2 mi upstream from Shoshone Falls, 4 mi north of Kimberly, and at mile 617.5.

PERIOD OF RECORD.--July 1923 to current year.

REVISED RECORDS.--WSP 1347: 1924-26, 1928-30, 1942-44, 1946-48.

GAGE.--Water-stage recorder. Datum of gage is 3,362.67 ft National Geodetic Vertical Datum of 1929 (levels by Idaho Power Co.). Prior to Aug. 31, 1938, at site 2,000 ft downstream at different datum.

REMARKS.--Records good. Flow regulated by American Falls Reservoir 96.5 mi upstream and other reservoirs having a combined usable capacity of 4,700,000 acre-ft. Diurnal fluctuation caused by hydroelectric powerplant 1,200 ft upstream. At times practically entire flow is diverted at Milner during irrigation season; no diversions between Milner and Kimberly. During the period May 13-20, June 6, 9, 10, 1984, flood waters from Oakley Reservoir and Cottonwood Creek were diverted through Murtaugh Lake and entered the Snake River between Milner and Kimberly gaging stations. Diversion above station for irrigation of about 2,020,000 acres of which about 537,000 acres are by withdrawals from ground water and about 204,000 acres are irrigated below the station. Considerable water leaks into the Snake Plain aquifer upstream, a small part of which returns through springs a few miles above station.

AVERAGE DISCHARGE.--61 years, 3,133 ft3/s, 2,243,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,200 ft3/s July 4, 1927, gage height, 14.76 ft, site and datum then in use, from rating curve extended above 20,000 ft3/s; minimum recorded, 10 ft3/s May 17, 1944, gage height, 1.15 ft; minimum daily recorded, 95 ft3/s Apr. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,600 ft3/s June 14, gage height, 19.70 ft; minimum, 426 ft3/s July 20, gage height, 4.41 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

4.0	325	10.0	3440
5.0	593	12.0	5790
6.0	950	15.0	11100
8.0	1970	18.0	18500
		20.0	27000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2940	12800	11700	13200	15200	4130	12200	17500	16800	9050	6800	2360
2	3330	10800	11400	13600	15100	4040	12400	17400	17300	8710	7700	2790
3	3150	9540	11400	14000	14700	4040	12900	18000	16000	7830	7900	2510
4	3130	9480	10800	14400	13500	4150	13300	18600	16800	7870	7500	2360
5	3080	9490	7280	14600	12800	4090	13200	17900	16300	8300	6500	2340
6	3420	9520	11900	14700	12700	4080	13100	18200	17700	8760	4090	2280
7	3290	9250	11900	14900	12100	4070	13400	18300	19500	8920	2390	2180
8	3650	9600	11700	15000	10200	4120	14000	17600	21100	4560	1680	2260
9	3750	11500	11600	15000	7850	4130	13900	17200	22200	3190	1660	1650
10	4260	12100	11400	15100	6400	4150	14400	16400	22300	7690	1420	1550
11	5630	12200	11400	15200	6450	4040	14400	15200	22800	6460	1410	1770
12	7240	12100	11300	15200	6400	3310	14900	14700	23800	5070	1530	2370
13	8110	11700	11600	15200	6500	1750	15000	13600	24100	3820	1620	2300
14	4570	11700	11700	15000	6300	1770	15200	13700	24600	2120	1510	2370
15	8080	12400	11900	14800	6900	1970	15200	13800	24700	1220	1540	2390
16	8140	13200	11800	14600	6530	3110	15100	16000	24600	1730	1650	2360
17	8060	13200	12800	14500	5110	4070	14200	18900	24600	1210	2130	2420
18	8490	13600	13800	14400	4660	4120	13400	18700	23900	1050	2110	2380
19	9960	14500	14100	14400	4580	4360	13200	19400	23300	994	1920	2370
20	10800	13900	13900	14400	4320	4680	9450	13600	22900	784	1870	2400
21	11100	13100	12000	14400	4020	4780	10000	20400	22400	2120	1970	2330
22	11900	14200	10500	14400	4390	4820	9600	22300	22700	2640	1870	2670
23	11900	14400	11200	14500	4490	4930	9250	21900	22300	2520	1840	2800
24	13100	13300	12800	15300	4450	4550	14600	21000	21800	2520	2620	2450
25	14500	12100	13000	15700	4160	4900	17300	21500	20600	1910	2750	2750
26	15900	12700	13000	15500	4380	4930	19900	21000	17200	1910	2510	2730
27	15900	13400	13200	15600	4430	6200	21200	21200	13400	2020	2680	2440
28	15500	13000	13100	15600	4180	10200	20200	21000	10700	3050	2670	2550
29	15500	12700	13100	15500	4190	11700	18400	20000	10400	4420	2530	2610
30	15500	12000	13100	15700	---	12100	17900	19700	9920	5000	2340	2690
31	15200	---	13100	15500	---	12200	---	16500	---	5700	2280	---
TOTAL	269280	363470	373080	460200	216990	155760	431200	565100	596630	142143	91090	71540
MEAN	8686	12120	12030	14850	7482	5025	14370	18230	19890	4585	2938	2385
MAX	15900	14500	14100	15800	15200	12200	21200	22300	24700	9050	7900	2800
MIN	2940	9250	7280	13200	4020	1750	9250	13600	9920	784	1410	1550
AC-FT	534100	720900	740000	912800	430400	309000	855300	1121000	1183000	281900	180700	141900

CAL YR 1983	TOTAL	3178157	MEAN	8707	MAX	23100	MIN	344	AC-FT	6304000
WTR YR 1984	TOTAL	3736493	MEAN	10210	MAX	24700	MIN	784	AC-FT	7411000

Note.--No gage-height record Dec. 17 to Jan. 24.

13091000 BLUE LAKES SPRING NEAR TWIN FALLS, ID

LOCATION.--Lat 42°36'53", long 114°28'06", in NE1/4 NW1/4 SE1/4 sec.28, T.9 S., R.17 E., Jerome County, Hydrologic Unit 17040212, on left bank at outlet of upper Blue Lake, 0.6 mi upstream from mouth, 1.2 mi northwest of Perrine Memorial Bridge, 3.5 mi north of Twin Falls, and 610.5 mi upstream from mouth of Snake River.

PERIOD OF RECORD.--April 1950 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,300 ft, from topographic map.

REMARKS.--Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--34 years, 209 ft3/s, 151,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 256 ft3/s Nov. 10, 11, 1951, Oct. 24 to Nov. 13, 1952, Sept. 29, 30, 1953, Oct. 23, 24, 1957; minimum daily, 154 ft3/s May 29, 30, June 2-25, June 27 to July 9, July 14, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 193 ft3/s Sept. 4, 5, 15, 25, 26; minimum daily, 166 ft3/s Oct. 1-6, Feb. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	181	178	178	172	169	177	175	178	178	184	190
2	166	181	178	178	172	169	176	175	178	178	184	192
3	166	181	178	178	172	170	175	175	178	178	184	192
4	166	181	178	178	172	169	175	175	178	178	184	193
5	166	181	178	178	172	170	175	175	181	179	184	193
6	166	181	178	178	172	172	175	175	178	180	184	190
7	169	184	178	178	172	172	175	175	178	181	184	190
8	169	184	178	178	172	172	175	175	178	181	184	190
9	169	184	178	178	172	172	175	175	178	181	186	190
10	169	181	178	178	172	172	175	175	178	181	187	191
11	169	181	178	180	172	172	175	175	178	179	187	192
12	172	184	178	179	172	172	175	175	178	180	186	192
13	172	181	178	178	172	173	175	176	178	181	186	192
14	172	181	178	179	172	173	174	177	175	181	185	192
15	172	181	178	178	172	174	174	178	175	181	185	193
16	172	181	178	178	172	175	173	178	178	181	187	190
17	175	181	178	178	172	175	174	177	178	181	187	190
18	175	184	175	178	172	178	175	177	178	182	187	190
19	175	184	175	178	172	178	174	178	178	184	187	190
20	175	181	178	176	169	178	174	177	178	184	187	190
21	175	181	178	178	169	178	175	178	175	184	187	191
22	178	181	178	175	169	178	174	178	175	185	189	191
23	178	181	178	175	169	178	174	178	175	185	190	191
24	178	181	181	175	166	178	175	178	178	186	190	191
25	178	181	178	175	169	178	174	178	178	187	190	193
26	178	181	178	175	169	178	175	178	178	187	187	193
27	178	181	178	175	169	178	175	178	178	184	187	187
28	181	181	181	175	169	178	175	178	178	184	187	187
29	178	181	181	175	169	178	175	178	178	186	189	187
30	178	181	181	175	---	178	175	178	178	184	191	187
31	178	---	178	175	---	177	---	178	---	184	191	---
TOTAL	5359	5468	5524	5490	4955	5412	5243	5476	5328	5643	5783	5720
MEAN	173	182	178	177	171	175	175	177	178	182	187	191
MAX	181	184	181	180	172	178	177	178	181	187	191	193
MIN	166	181	175	175	166	169	173	175	175	178	184	187
AC-FT	10630	10810	10960	10890	9830	10730	10400	10860	10570	11190	11470	11350

CAL YR 1983 TOTAL 61025 MEAN 167 MAX 184 MIN 154 AC-FT 121000
WTR YR 1984 TOTAL 65361 MEAN 179 MAX 193 MIN 166 AC-FT 129700

13093000 ROCK CREEK BELOW POLELINE ROAD NEAR TWIN FALLS, ID

LOCATION.--Lat 42°35'40", long 114°31'46", in SW1/4 SE1/4 SW1/4 sec.36, T.8 S., R.16 E., Twin Falls County, Hydrologic Unit 17040212, on left bank, 420 ft downstream of Poleline Road bridge, 1 mi upstream from mouth, and 4 mi northeast of Twin Falls.

DRAINAGE AREA.--277 mi2.

PERIOD OF RECORD.--July 1922 to September 1947, March 1983 to current year. Monthly and yearly discharge published 1922 to 1947 in WSP 1317. Published as "Rock Creek near mouth, near Twin Falls" (sta 13093095) at site 2 mi downstream July 1975 to December 1982. Records equivalent except during irrigation season when irrigation-return flow may be significant.

GAGE.--Water-stage recorder. Altitude of gage is 3,300 ft (by barometer). Prior to July 31, 1922, staff gage, and July 31, 1922, to Sept. 30, 1947, water-stage recorder 100 to 300 ft upstream at various sites and different datums.

REMARKS.--Records good. Flow partially regulated by many diversions upstream for irrigation and irrigation-return flows.

AVERAGE DISCHARGE.--25 years (1923-46, 1984), 213 ft3/s, 154,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 984 ft3/s Sept. 21, 1927, gage height 4.5 ft, datum then in use, from floodmarks; minimum 90 ft3/s Mar. 28, 1961, gage height 1.66 ft, datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 876 ft3/s May 13, gage height 10.71 ft; minimum daily, 111 ft3/s Jan. 18.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

9.0	106	9.6	230
9.2	141	9.9	327
9.4	181	10.3	533
		10.8	900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	290	203	157	169	144	128	137	265	572	293	245	340
2	293	196	158	161	134	164	130	268	559	297	249	364
3	288	191	161	155	136	163	145	300	470	262	263	376
4	287	190	149	153	132	139	142	320	482	258	315	347
5	309	186	167	156	131	132	144	345	496	277	287	347
6	275	186	157	159	129	131	162	346	507	251	255	361
7	265	185	177	161	126	130	179	319	476	244	257	361
8	260	179	185	158	127	132	181	307	470	249	261	347
9	266	176	179	156	129	147	181	308	443	258	257	367
10	262	176	181	155	133	151	188	331	552	222	269	362
11	258	178	178	153	126	166	187	376	539	247	248	336
12	255	177	178	151	132	173	180	482	488	209	255	295
13	263	179	173	149	167	179	151	572	402	230	274	277
14	261	173	177	148	220	187	147	613	470	226	283	283
15	251	169	181	139	184	202	155	620	507	218	309	284
16	248	170	169	126	180	205	175	736	507	232	271	363
17	247	191	162	132	162	204	236	634	461	232	275	335
18	242	196	158	111	148	196	291	620	439	219	283	341
19	238	180	159	112	137	187	306	539	413	217	282	288
20	236	182	154	115	129	183	293	578	417	228	287	309
21	232	177	142	122	142	188	265	634	361	244	260	300
22	226	169	134	128	135	212	239	626	387	281	245	292
23	228	166	126	128	129	218	234	663	356	291	245	327
24	225	173	127	141	131	213	246	613	341	291	256	332
25	222	173	134	250	131	205	262	620	320	322	257	322
26	218	161	136	220	124	201	261	684	299	240	323	337
27	212	159	137	174	123	187	257	585	282	249	308	314
28	206	162	138	165	123	173	249	599	264	261	276	302
29	202	159	134	155	119	172	251	620	258	289	273	315
30	203	156	140	148	---	163	265	626	246	302	289	318
31	203	---	158	143	---	161	---	641	---	301	334	---
TOTAL	7671	5314	4846	4691	4061	5392	6265	15712	12867	7934	8501	9782
MEAN	247	177	156	151	140	174	209	507	429	256	274	326
MAX	309	203	185	250	220	218	306	736	572	322	334	376
MIN	202	156	126	111	119	128	142	265	246	209	245	277
AC-FT	15220	10540	9610	9300	8050	10700	12430	31160	25520	15740	16860	19400

WTR YR 1984 TOTAL 93036 MEAN 254 MAX 736 MIN 111 AC-FT 184500

13094000 SNAKE RIVER NEAR BUHL, ID

LOCATION.--Lat 42°39'58", long 114°52'41", in NW1/4 NW1/4 sec.9, T.9 S., R.15 E., Twin Falls County, Hydrologic Unit 17040212, on left bank 2 mi downstream from Niagara Springs, 3.8 mi upstream from outlet of Clear Lakes, 5 mi northeast of Buhl, and at mile 596.9.

PERIOD OF RECORD.--December 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,951.9 ft National Geodetic Vertical Datum of 1929 (stadia levels). Dec. 12, 1946, to July 13, 1965, at datum 1.00 ft higher. Prior to Jan. 17, 1947, nonrecording gage 40 ft upstream.

REMARKS.--Records good. Flow regulated by American Falls Reservoir 116.5 mi upstream. Diurnal fluctuation caused by hydroelectric plants upstream. No diversion except by small ranch ditches between this station and station at Milner, where at times practically entire flow is diverted during irrigation seasons. Diversions above station for irrigation of about 2,030,000 acres of which about 562,000 acres are by withdrawals from ground water and about 270,000 acres are irrigated below station. In addition, about 26,000 acres are irrigated above station by diversions from Salmon Falls Creek. Considerable water leaks into the Snake Plain aquifer upstream, some of which returns above the station.

AVERAGE DISCHARGE.--37 years, 5,340 ft3/s, 3,869,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,300 ft3/s June 14, 1984, gage height, 11.90 ft; minimum, 1,560 ft3/s Mar. 29, 1963, gage height, 0.83 ft (present datum).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,300 ft3/s June 14, gage height, 11.90 ft; minimum, 2,440 ft3/s July 21, gage height, 2.06 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Apr. 26 to June 25)

2.0	2390	9.0	15100
4.0	4760	10.0	19000
6.0	8500	12.0	25200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4910	14500	13100	15100	16000	5480	13200	19000	18100	11000	9500	4120
2	5360	12800	12700	15200	16000	5490	13300	19500	19100	10500	8570	4640
3	5390	11200	12700	15700	15700	5440	13600	19400	17900	9710	8760	4600
4	5210	11000	12300	15800	14600	5490	14200	19900	18500	9500	7980	4450
5	5170	11000	8550	15800	13900	5440	14200	19600	19200	9710	7740	4330
6	5570	11000	14500	16300	13600	5400	14100	19600	19200	10300	6550	4350
7	5300	10900	13800	16300	13200	5380	14200	19900	20700	10500	6830	4390
8	5510	10800	13100	16500	11800	5410	14900	18800	23500	10300	5620	4420
9	5990	12500	12900	16500	9630	5430	14800	18900	22700	9990	5520	4040
10	5980	13300	12500	16200	8110	5490	15400	19100	23300	9300	3290	3900
11	7520	13600	12700	16200	7650	5460	15300	17200	23600	8650	3190	3760
12	7990	13500	12400	16100	7760	5150	15700	16600	24100	7210	3180	4280
13	9790	13200	12800	16300	7740	3290	15500	15700	24500	5900	3400	4350
14	8130	13100	12900	16200	8180	3020	16000	15700	24800	4170	3320	4420
15	8350	13400	13100	16000	8110	3060	16000	15500	24900	3260	3400	4510
16	10300	14300	13100	15800	7990	3790	16000	17500	24700	2960	3370	4520
17	10000	14500	13800	15600	7030	5400	15400	20000	24600	3230	3730	4590
18	10200	14900	15100	15200	5960	5400	14600	20200	24100	2660	3870	4570
19	11300	15400	15500	15200	5930	5630	14500	23600	23600	2640	3780	4410
20	12500	15400	14600	15400	5790	5970	11500	20100	23400	2520	3640	4500
21	12700	14500	13500	15400	5290	6150	11300	21300	23000	2940	3530	4500
22	13500	15000	10600	15400	5700	6130	11000	22600	23100	4150	3690	4550
23	13700	15600	13100	15400	5760	6290	10600	22800	22800	4310	3550	5250
24	14100	14900	13800	15900	5760	6270	14600	21900	22400	4290	3920	4760
25	15700	13700	13900	16500	5520	6210	17500	22000	21700	3920	4590	4920
26	16800	13600	14300	16400	5610	6300	20600	22100	19100	3550	4390	5270
27	17200	14500	14400	16400	5760	6730	21500	21700	15700	3650	4570	4720
28	16700	14400	14400	16400	5590	10600	21200	21900	12900	4380	4420	4660
29	16600	14000	14400	16500	5620	12500	19900	21200	12200	6200	4400	4800
30	16700	13400	14600	16500	---	13100	19300	20300	11800	7410	4110	4910
31	16600	---	14300	16400	---	13300	---	18700	---	7920	4220	---
TOTAL	320800	404200	413750	494600	254660	194200	460300	607300	626500	196250	143650	135470
MEAN	10350	13470	13350	15950	8781	6265	15340	19590	20880	6331	4635	4516
MAX	17200	15600	15500	16500	16000	13300	21500	22500	24900	11000	8760	5270
MIN	4910	10800	8550	15100	5290	3020	10600	15500	11800	2520	3180	3760
AC-FT	636300	801700	820700	981000	505100	385200	913000	1205000	1243000	389300	285000	268700

CAL YR 1983	TOTAL	3694950	MEAN	10120	MAX	22500	MIN	2210	AC-FT	7329000
WTR YR 1984	TOTAL	4251710	MEAN	11620	MAX	24900	MIN	2520	AC-FT	8433000

13095500 BOX CANYON SPRINGS NEAR WENDELL, ID

LOCATION.--Lat 42°42'29", long 114°48'35", in SW1/4 NW1/4 NW1/4 sec.28, T.8 S., R.14 E., Gooding County, Hydrologic Unit 17040212, on left bank 150 ft downstream from waterfall, at mile 0.5, 0.8 mi downstream from source, 7.5 mi southwest of Wendell, and 588.8 mi upstream from mouth of Snake River.

PERIOD OF RECORD.--April 1950 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,930 ft, from topographic map.

REMARKS.--Records good. No regulation or surface diversion above station. Discharge affected by variable surface waste from irrigation, which flows over rimrocks into springs above station.

AVERAGE DISCHARGE.--34 years, 400 ft3/s, 289,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 483 ft3/s Oct. 9, 14, 15, 18, 19, 1965; minimum daily, 340 ft3/s Mar. 27, Apr. 22, 23, May 1, 5, 10, 11, 13, 18, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 411 ft3/s Oct. 21-23; minimum daily, 353 ft3/s May 10 to June 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	401	407	403	385	377	369	367	361	353	363	365	387
2	403	407	403	385	377	369	367	361	353	363	365	387
3	403	407	403	385	375	369	367	361	353	363	366	387
4	403	407	403	385	373	369	367	361	353	363	371	387
5	403	407	402	385	373	369	367	361	353	363	371	387
6	403	407	399	385	373	369	367	361	353	363	371	388
7	404	407	399	385	373	369	367	359	355	363	371	389
8	405	407	399	385	373	369	367	359	355	363	371	389
9	409	407	399	382	373	369	367	358	356	363	375	389
10	409	407	399	381	373	369	364	353	359	363	375	394
11	409	407	395	381	373	369	363	353	359	360	375	395
12	409	407	395	381	373	369	363	353	359	359	375	395
13	409	407	395	381	373	368	363	353	359	359	375	395
14	409	407	395	381	373	367	363	353	360	359	375	395
15	409	407	394	381	373	367	363	353	363	359	375	395
16	409	407	393	381	373	367	362	353	363	359	375	395
17	409	407	393	381	373	367	361	353	363	361	379	395
18	409	405	393	381	373	367	361	353	363	361	380	395
19	409	403	393	381	373	367	361	353	364	361	381	395
20	410	403	393	381	373	367	361	353	367	361	381	398
21	411	403	393	381	373	367	361	353	367	361	386	399
22	411	403	393	381	373	367	361	353	367	361	387	399
23	411	403	393	381	373	367	361	353	367	364	387	401
24	409	403	393	379	373	367	361	353	367	365	387	401
25	407	403	392	377	373	367	361	353	363	365	387	401
26	407	403	389	377	373	367	361	353	363	365	387	401
27	407	403	389	377	371	367	361	353	363	365	387	401
28	407	403	389	377	369	367	361	353	363	365	386	401
29	407	403	389	377	369	367	361	353	363	365	385	401
30	407	403	389	377	---	367	361	353	363	365	385	403
31	407	---	386	377	---	367	---	353	---	365	386	---
TOTAL	12625	12160	12243	11814	10817	11402	10898	11008	10809	11235	11722	11845
MEAN	407	405	395	381	373	368	363	355	360	362	378	395
MAX	411	407	403	385	377	369	367	361	367	365	387	403
MIN	401	403	386	377	369	367	361	353	353	359	365	387
AC-FT	25040	24120	24280	23430	21460	22620	21620	21830	21440	22280	23250	23490

CAL YR 1983 TOTAL 135134 MEAN 370 MAX 411 MIN 340 AC-FT 268000
WTR YR 1984 TOTAL 138578 MEAN 379 MAX 411 MIN 353 AC-FT 274900

13103000 SALMON FALLS CREEK NEAR SAN JACINTO, NV

LOCATION.--Lat 41°56'40", long 114°41'15", in NE1/4 SW1/4 sec.23, T.47 N., R.64 E., Elko County, Hydrologic Unit 17040213, on right bank in canyon, 630 ft downstream from bridge on U.S. Highway 93, 550 ft downstream from Shoshone Creek, and 5 mi north of San Jacinto.

DRAINAGE AREA.--1,450 mi2, approximately. Mean altitude, 6,350 ft.

PERIOD OF RECORD.--September 1909 to June 1910 (gage heights only), June 1910 to September 1916, October 1918 to current year. Monthly discharge only for some periods published in WSP 1317. Prior to October 1910, published as "Salmon Falls River."

REVISED RECORDS.--WSP 1934: 1963(M).

GAGE.--Water-stage recorder. Altitude of gage is 5,120 ft, by barometer. Prior to June 6, 1910, nonrecording gage at nearby site at different datum. June 6, 1910, to Sept. 30, 1916, Oct. 1, 1918, to Aug. 25, 1964, water-stage recorder at site 35 ft upstream at same datum.

REMARKS.--Records good. Diversions above station for irrigation of about 18,200 acres 1966 determination. Salmon Dam of Salmon River Canal Co. is 15 mi downstream (see sta 13106500).

AVERAGE DISCHARGE.--72 years (1911-16, 1919-84), 146 ft3/s, 105,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,860 ft3/s May 16, 1984, gage height, 14.27 ft; minimum, 2.6 ft3/s Sept. 4, 1961, gage height, 3.37 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,860 ft3/s May 16, gage height, 14.27 ft; minimum discharge, 39.0 ft3/s Dec. 22, gage height, 4.85 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	89	95	102	132	128	249	826	2020	695	200	93
2	90	86	99	80	131	155	246	942	1910	639	253	89
3	89	85	107	87	128	151	233	1180	1710	556	233	85
4	80	84	108	119	129	139	235	1520	1550	520	202	85
5	75	82	77	118	127	120	278	1680	1540	490	184	87
6	74	82	89	120	126	117	362	1540	1530	448	172	93
7	72	84	98	113	128	151	362	1210	1480	464	160	93
8	71	84	106	115	128	221	380	1040	1380	467	147	87
9	74	83	113	116	125	276	380	1070	1240	421	133	81
10	76	84	117	109	127	327	396	1340	1270	387	126	74
11	77	82	116	117	122	286	395	1660	1390	358	119	69
12	76	85	115	116	124	222	357	1970	1160	332	117	67
13	77	90	111	119	210	200	372	2300	1060	302	121	70
14	84	92	108	116	245	236	418	2820	1070	294	126	70
15	86	88	116	81	173	310	548	3420	1060	281	119	70
16	81	85	104	70	146	271	778	3620	1110	265	117	72
17	81	86	101	70	134	242	1200	3160	1120	248	112	72
18	79	93	104	60	123	208	1550	2570	1150	236	108	70
19	77	99	106	65	105	211	1540	2260	1170	230	103	69
20	75	99	101	69	103	252	1330	2210	1180	233	103	69
21	75	96	67	80	117	316	1070	2330	1170	256	99	72
22	74	93	52	91	126	322	934	2510	1140	334	97	79
23	74	90	55	105	112	299	998	2450	1050	346	91	81
24	77	92	61	118	119	302	1250	2380	950	271	89	76
25	75	99	61	138	120	322	1270	2410	908	236	91	70
26	72	89	89	139	117	329	1050	2300	886	226	91	76
27	74	86	104	140	109	286	1060	2170	852	236	91	79
28	74	89	100	158	106	259	926	2140	785	250	85	76
29	74	95	89	157	109	256	826	2040	725	228	81	76
30	76	94	104	151	---	244	770	1980	718	218	83	78
31	85	---	115	153	---	238	---	1980	---	204	87	---
TOTAL	2410	2667	2988	3372	3801	7394	21763	63028	36284	10671	3940	2328
MEAN	77.7	88.9	96.4	109	131	239	725	2033	1209	344	127	77.6
MAX	90	99	117	158	245	329	1550	3620	2020	695	253	93
MIN	71	82	52	60	103	117	233	826	718	204	81	67
AC-FT	4780	5290	5930	6690	7540	14670	43170	125000	71970	21170	7810	4620

CAL YR 1983 TOTAL 81807 MEAN 224 MAX 1250 MIN 35 AC-FT 162300
WTR YR 1984 TOTAL 160646 MEAN 439 MAX 3620 MIN 52 AC-FT 318600

13106000 SALMON RIVER CANAL CO. CANAL NEAR ROGERSON, ID

LOCATION.--Lat 42°13'10", long 114°46'20", in SE1/4 NW1/4 SE1/4 sec.7, T.14 S., R.15 E., Twin Falls County, Hydrologic Unit 17040213, Bureau of Land Management lands, on left bank 0.3 mi downstream from Salmon River Canal Co. reservoir and 7 mi west of Rogerson.

PERIOD OF RECORD.--April 1937 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,940 ft, by aerometer. Oct. 1, 1933, to Sept. 30, 1956, nonrecording gage at same site and datum.

REMARKS.--Records good. Canal diverts from Salmon River Canal Co. reservoir (see sta 13106500) for irrigation of land in Salmon River Canal Co. project. Nonrecording gage 0.3 mi downstream used May 11 to June 29 when recording gage was in backwater from spill gates.

AVERAGE DISCHARGE.--47 years, 108 ft3/s, 78,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 660 ft3/s July 21-24, 1944; no flow for long periods in each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	575	453	375	331
2	.00	.00	.00	.00	.00	.00	.00	.00	575	487	362	320
3	.00	.00	.00	.00	.00	.00	.00	.00	564	499	346	286
4	.00	.00	.00	.00	.00	.00	.00	.00	564	502	315	241
5	.00	.00	.00	.00	.00	.00	.00	.00	557	570	292	233
6	.00	.00	.00	.00	.00	.00	.00	.00	535	510	249	261
7	.00	.00	.00	.00	.00	.00	.00	.00	453	426	259	262
8	.00	.00	.00	.00	.00	.00	.00	.00	441	429	291	252
9	.00	.00	.00	.00	.00	.00	.00	43	351	435	309	227
10	.00	.00	.00	.00	.00	.00	.00	115	326	437	348	219
11	.00	.00	.00	.00	.00	.00	.00	135	303	445	352	216
12	.00	.00	.00	.00	.00	.00	.00	190	286	445	362	219
13	.00	.00	.00	.00	.00	.00	.00	225	166	448	351	217
14	.00	.00	.00	.00	.00	.00	.00	299	178	451	331	211
15	.00	.00	.00	.00	.00	.00	.00	322	176	451	328	209
16	.00	.00	.00	.00	.00	.00	.00	382	176	455	315	212
17	.00	.00	.00	.00	.00	.00	.00	347	165	467	324	205
18	.00	.00	.00	.00	.00	.00	.00	367	218	466	345	211
19	.00	.00	.00	.00	.00	.00	.00	379	273	466	350	217
20	.00	.00	.00	.00	.00	.00	.00	396	264	465	364	217
21	.00	.00	.00	.00	.00	.00	.00	396	260	462	358	218
22	.00	.00	.00	.00	.00	.00	.00	396	270	454	382	201
23	.00	.00	.00	.00	.00	.00	.00	396	299	442	386	173
24	.00	.00	.00	.00	.00	.00	.00	439	329	436	385	155
25	.00	.00	.00	.00	.00	.00	.00	439	347	429	385	114
26	.00	.00	.00	.00	.00	.00	.00	480	333	435	385	.00
27	.00	.00	.00	.00	.00	.00	.00	491	609	453	376	.00
28	.00	.00	.00	.00	.00	.00	.00	522	627	442	376	.00
29	.00	.00	.00	.00	.00	.00	.00	533	629	419	372	.00
30	.00	.00	.00	.00	---	.00	.00	583	636	411	363	.00
31	.00	---	.00	.00	---	.00	---	583	---	374	353	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	8486.00	10696	14007	10699	5764.00
MEAN	.00	.00	.00	.00	.00	.00	.00	274	357	452	345	192
MAX	.00	.00	.00	.00	.00	.00	.00	583	578	520	385	331
MIN	.00	.00	.00	.00	.00	.00	.00	.00	165	374	249	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	16830	21220	27783	21220	11440

CAL YR 1983 TOTAL 44462.00 MEAN 122 MAX 333 MIN .00 AC-FT 88190
WTR YR 1984 TOTAL 49654.00 MEAN 136 MAX 585 MIN .00 AC-FT 98490

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13106500 SALMON RIVER CANAL CO. RESERVOIR NEAR ROGERSON, ID

LOCATION.--Lat 42°12'40", long 114°44'00", in NE1/4 sec.10, T.14 S., R.15 E., Twin Falls County, Hydrologic unit 17040213, Bureau of Land Management lands, at Salmon Falls Dam on Salmon Falls Creek, 7.5 mi west of Rogerson, and at mile 45.3.

DRAINAGE AREA.--1,610 mi², approximately.

PERIOD OF RECORD.--January 1922 to current year.

GAGE.--Nonrecording gage. Datum of gage is 4,943.8 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by gravity-section concrete-arch dam completed in 1911; storage began in 1910. Usable capacity, 182,650 acre-ft between gage heights 0.0 (bottom of outlet tunnel) and 80.0 ft maximum operating level. Dead storage, 48,000 acre-ft. Reservoir spilled May 11 to June 29, 1984, the first time since construction in 1922. Water is used for irrigation of lands in Salmon River Canal Co. project. Figures given herein represent usable contents.

COOPERATION.--Gage readings and capacity table furnished by Salmon River Canal Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 180,600 acre-ft June 20, July 2, 3, 1984, gage height, 79.40 ft; minimum observed, 125 acre-ft Sept. 21 to Oct. 5, 1934, gage height, 0.1 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 180,600 acre-ft June 20, July 2, 3, gage height, 79.40 ft; minimum observed, 65,200 acre-ft Oct. 1, gage height, 37.90 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

30.0	48800	60.0	120600
40.0	69800	70.0	150300
50.0	93800	80.0	182600

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65200	66800	69200	73100	77200	82100	93000	136400	171100	180400	165200	144300
2	65300	66900	69400	73200	77400	---	93600	138000	171700	180600	164500	143200
3	65400	---	69500	---	77600	82400	94100	140000	172700	180600	164000	142500
4	---	67000	69600	73300	77700	82600	94400	142000	173400	180400	163600	141900
5	---	67100	69700	73500	77900	82800	94700	144900	174100	180100	163100	141400
6	---	---	---	73600	78000	82900	95200	148000	174900	179800	162600	140800
7	---	67200	70000	73800	78100	83000	95800	150900	176100	179400	162100	140300
8	65600	67300	70100	74000	78200	83300	96500	153500	177400	179100	161600	139700
9	---	---	---	74100	78500	83600	97000	155400	178200	178900	161100	139100
10	65700	---	70300	74200	78700	84100	97600	157400	178900	178600	160500	138600
11	65800	67400	70400	74300	78800	84600	98400	159700	179800	178200	159800	138200
12	---	67500	70500	74400	78900	85000	99300	161300	179900	177600	159000	137600
13	---	---	70800	74700	79200	85300	100000	163200	179900	177100	158200	137200
14	---	67700	70900	74800	79400	85600	100600	166300	179400	176400	157600	136600
15	65900	---	71100	74900	79900	85900	101300	169200	179400	175700	156900	136100
16	66000	67800	71200	75000	80200	86400	102100	171900	179400	175100	156300	135700
17	---	---	71300	---	80400	86800	103800	173600	179800	174400	155700	135200
18	66100	68000	71500	75100	80600	87300	106000	174100	179900	173600	155000	134700
19	---	68100	71600	---	80700	87300	109000	173100	180400	172900	154300	134100
20	66200	---	71700	---	---	87800	112000	171200	180600	172100	153500	133600
21	---	68200	71800	---	80800	88200	114900	169600	180400	171400	152700	133100
22	66400	68500	71900	75300	81000	88500	117300	169400	180300	170900	151900	132600
23	---	---	---	75400	81200	89000	119100	170400	180400	170600	151100	132000
24	---	68600	---	75500	81300	89500	121200	169600	180300	170100	150300	131800
25	---	68700	---	75800	81600	90000	123700	172600	180100	169600	149500	131500
26	66500	---	72200	76100	81700	90500	126400	173100	179900	168900	148800	131200
27	---	68800	---	76300	81800	91000	128700	173100	179900	168100	148000	---
28	66600	68900	72300	76500	81800	91500	131200	172900	179800	167500	147200	131000
29	66700	68900	---	76600	82000	91900	133100	172400	180100	166800	146300	---
30	66800	69000	72700	77000	---	92300	134700	171700	180300	166200	145500	130900
31	66800	---	72900	77100	---	92600	---	170900	---	165700	144800	---
MEAN	---	---	---	---	---	---	107800	162400	178300	174400	155800	---
MAX	---	---	---	---	---	---	134700	174100	180600	180600	165200	---
MIN	---	---	---	---	---	---	93000	136400	171100	165700	144800	---
(†)	38.65	39.65	41.30	43.15	45.25	49.60	64.90	76.50	79.30	74.90	68.30	63.60
(‡)	+1700	+2200	+3900	+4200	+4900	+10600	+42100	+36200	+9400	-14600	-20900	-13900

CAL YR 1983.........‡+33700
WTR YR 1984.........‡+63800

†Gage height, in feet, at end of month
‡Change in contents, in acre-ft

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13108150 SALMON FALLS CREEK NEAR HAGERMAN, ID

LOCATION.--Lat 42°41'47", long 114°51'13", in SW1/4 SE1/4 SE1/4 sec.30, T.8 S., R.14 E., Twin Falls County, Hydrologic Unit 17040213, on left bank 25 ft upstream from U.S. Highway 30, at mile 1.9, and 8.5 mi south of Hagerman.

DRAINAGE AREA.--2,120 mi2, approximately.

PERIOD OF RECORD.--April 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,900 ft, from topographic map.

REMARKS.--Records good. Flow completely regulated by Salmon River Canal Co. reservoir 44 mi upstream (see sta 13105000). Flow below the dam is derived from leakage past the dam and return flow from adjacent land. Several diversions by pumping from the left bank below the dam are used for irrigation of land. Flow past gage is partially regulated during irrigation season by small diversion dam 0.9 mi upstream.

AVERAGE DISCHARGE.--14 years, 169 ft3/s, 122,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,500 ft3/s May 16, 1984, gage height, 13.14 ft on basis of contracted opening measurement of peak flow, result of roadfill collapse approximately 13 mi upstream; minimum 5.6 ft3/s July 9, 1977, gage height, 2.51 ft. From May 11 to June 28, 1984, Salmon River Canal Co. reservoir spilled into Salmon Falls Creek for the first time since construction in 1910. Maximum discharge excluding 1984 was 3,390 ft3/s Jan. 12, 1979, gage height, 9.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,500 ft3/s May 16, gage height, 18.14 ft, on basis of contracted opening measurement of peak flow, result of roadfill collapse approximately 13 mi upstream; minimum, 40.4 ft3/s July 13, 14, gage height, 4.09 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1 to Nov. 14, May 13-22)

Oct. 1 to May 16				May 16 to Sept. 30			
3.9	118	5.5	406	4.1	41	7.0	500
4.2	161	6.0	522	4.5	71	9.0	1193
4.5	210	7.0	785	5.0	121	11.0	2100
5.0	302	8.0	1440	6.0	273	15.0	4720
		9.6	3390			15.2	7530

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	210	177	134	127	132	134	227	1020	138	144	149
2	253	210	174	133	124	167	134	224	926	126	152	151
3	260	205	178	133	127	145	134	229	880	81	170	153
4	253	202	147	132	127	135	132	224	860	76	193	146
5	254	203	139	132	126	132	139	233	840	64	239	125
6	260	203	140	132	126	130	180	247	820	70	177	126
7	249	202	148	133	123	129	212	258	800	53	139	143
8	263	185	144	133	124	135	171	236	790	52	128	155
9	258	183	140	132	124	137	175	219	770	72	129	152
10	266	185	140	132	124	137	185	213	750	65	133	172
11	267	188	140	131	124	138	175	229	900	56	123	195
12	266	187	140	130	124	145	193	613	1300	49	119	183
13	273	188	139	130	126	150	207	985	1310	42	116	193
14	283	182	139	130	131	151	215	646	1310	42	121	216
15	281	164	139	129	131	155	260	1060	1140	42	153	219
16	277	166	139	128	129	170	275	3440	900	46	182	230
17	279	183	138	123	130	158	253	3000	780	50	200	251
18	279	185	137	121	130	150	251	2970	740	56	206	229
19	277	182	137	124	127	140	262	2910	790	64	201	224
20	275	183	135	123	123	138	269	2630	940	80	168	232
21	269	183	133	118	125	150	290	2530	940	79	121	240
22	256	182	129	122	127	181	296	2100	920	90	109	249
23	253	179	123	123	128	183	271	1580	890	106	111	264
24	256	179	124	130	127	164	262	1500	850	102	103	265
25	240	181	123	137	127	162	273	1480	798	110	107	275
26	273	179	128	140	126	156	304	1680	665	120	129	286
27	266	177	129	139	126	148	292	1730	522	110	131	282
28	253	176	132	138	124	144	277	1690	376	106	131	264
29	240	178	135	133	124	139	238	1640	304	133	131	275
30	224	175	136	129	---	136	251	1540	184	143	117	292
31	212	---	135	127	---	135	---	1460	---	134	125	---
TOTAL	8046	5585	4337	4033	3663	4552	6730	39421	25027	2560	4474	6336
MEAN	260	186	140	130	126	147	224	1272	834	82.6	144	211
MAX	283	210	178	140	131	183	304	3440	1310	148	209	292
MIN	212	164	123	118	124	129	132	213	184	42	103	125
AC-FT	15960	11080	8600	8000	7270	9030	13350	78190	49640	5080	8870	12570

CAL YR 1983	TOTAL	54292	MEAN	149	MAX	283	MIN	33	AC-FT	107700
WTR YR 1984	TOTAL	114766	MEAN	314	MAX	3440	MIN	42	AC-FT	227600

13116600 CAMAS CREEK DIVERSION ABOVE LONE TREE RESERVOIR NEAR DUBOIS, ID

LOCATION.--Lat 44°14'30", long 111°55'02", in SW1/4 SE1/4 SE1/4 sec.25, T.11 N., R.36 E., Clark County, Hydrologic Unit 17040216, on left bank 150 ft downstream from road bridge, 0.2 mi downstream from point of diversion, and 13 mi northeast of Dubois.

PERIOD OF RECORD.--April 1969 to May 1975, unpublished; June to September 1980 (flood season only); May to July 1983, May to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 6,125 ft, from topographic map.

REMARKS.--Records fair. Flow controlled by headgates from Camas Creek 0.2 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 734 ft3/s May 16, 1984, gage height, 4.58 ft; no flow for long periods when headgates are closed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								144	343	96	52	42
2								142	309	88	45	40
3								145	272	83	42	39
4								174	264	79	41	36
5								196	300	76	43	38
6								168	394	72	45	41
7								153	516	70	47	40
8								170	459	68	46	39
9								192	428	64	45	39
10								226	372	61	43	42
11								284	376	56	46	43
12								360	393	55	45	42
13								480	362	52	43	41
14								640	311	48	43	44
15								690	295	47	44	43
16								730	275	50	45	41
17								588	277	53	44	44
18								498	275	46	44	43
19								462	252	45	45	42
20								473	240	47	47	42
21								484	238	48	45	44
22								446	226	54	44	46
23								381	199	70	43	44
24								372	178	102	48	43
25								363	184	86	57	42
26								322	157	66	50	41
27								309	146	55	47	42
28								288	138	69	43	39
29								274	121	49	41	40
30								286	107	58	40	42
31								320	---	71	43	---
TOTAL								10760	8389	1963	1396	1240
MEAN								347	280	63.3	45.0	41.3
MAX								730	516	102	57	46
MIN								142	107	45	40	36
AC-FT								21340	16640	3890	2770	2460

Note.--No gage-height record May 1, 2, 4-6, 8-15, July 1, 2, 5-7, 9-11, 13, 15-23, 25-30, Aug. 1-8, 10-12, 15-17, 19-29.

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13112000 CAMAS CREEK AT CAMAS, ID

LOCATION.--Lat 44°00'10", long 112°13'12", in SE1/4 SE1/4 sec.21, T.8 N., R.36 E., Jefferson County, Hydrologic Unit 17040214, on left bank 150 ft upstream from county road bridge, 250 ft upstream from Union Pacific Railroad bridge at Camas, and about 1.1 mi upstream from Beaver Creek.

DRAINAGE AREA.--400 mi2, approximately. Mean altitude, 6,450 ft.

PERIOD OF RECORD.--April 1925 to October 1970, April 1971 to September 1982, May 1983 to current year.

REVISED RECORDS.--WSP 813: 1935. WSP 1123: 1947. WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,806.84 ft National Geodetic Vertical Datum of 1929. Prior to Aug. 21, 1925, nonrecording gage at site 0.1 mi downstream at different datum. Aug. 21, 1925, to Mar. 25, 1927, nonrecording gage and Mar. 26, 1927, to Sept. 14, 1938, water-stage recorder at site 250 ft upstream at datum 2.01 ft higher.

REMARKS.--Records good except those below 5 ft3/s and winter record, which are poor. Diversions above station for irrigation of about 8,100 acres, 1966 determination.

COOPERATION.--Water-stage recorder inspected by employees of Water District 31.

AVERAGE DISCHARGE.--56 years (1927-70, 1972-82, 1984), 35.5 ft3/s, 25,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,320 ft3/s May 16, 1984, gage height, 7.61 ft; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,320 ft3/s May 16, gage height, 7.61 ft; minimum, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	52	21	16	18	14	19	70	399	47	62	.00
2	123	54	20	18	20	15	21	73	373	41	49	1.0
3	122	67	19	17	15	15	24	79	307	35	47	31
4	131	94	20	18	14	14	27	95	265	31	61	.00
5	89	78	20	20	15	14	25	117	268	27	55	.00
6	74	89	19	20	16	14	24	108	477	22	52	8.0
7	66	85	20	19	15	15	23	92	715	20	42	11
8	60	105	23	20	15	18	26	98	897	19	30	14
9	58	120	21	21	14	17	30	149	757	20	23	4.0
10	78	93	23	19	18	17	29	202	551	24	20	.00
11	161	82	20	17	17	19	29	228	461	19	16	.00
12	102	59	21	18	15	20	34	268	527	13	13	.00
13	81	45	20	20	17	19	34	413	425	8.3	5.0	.00
14	78	36	19	21	19	20	29	722	305	.00	.00	.00
15	86	34	17	20	17	22	34	1030	282	.00	.00	.00
16	101	28	15	21	19	20	38	1140	242	.00	.00	.00
17	84	29	16	19	18	19	42	1160	244	.00	.00	.00
18	77	30	16	11	18	19	52	906	254	.00	.00	.00
19	72	31	15	12	15	17	70	776	226	.00	.00	.00
20	67	25	16	12	13	19	76	722	195	.00	.00	.00
21	65	23	14	15	14	21	55	811	185	.00	.00	.00
22	64	18	12	17	14	21	55	726	181	6.0	24	.00
23	61	46	9.4	18	14	20	79	534	148	38	12	.00
24	60	132	14	21	15	19	109	500	117	61	.00	.00
25	62	132	17	25	14	17	130	520	101	78	.00	.00
26	50	82	19	22	13	20	98	427	89	52	.00	.00
27	58	34	16	20	15	22	79	348	78	43	7.0	.00
28	55	41	13	20	14	20	78	326	71	55	16	.00
29	56	32	15	19	13	21	98	282	60	95	.00	.00
30	54	18	18	17	---	22	79	279	53	100	.00	.00
31	52	---	17	16	---	20	---	326	---	83	.00	---
TOTAL	2415	1794	545.4	569	454	570	1546	13529	9253	937.30	534.00	69.00
MEAN	77.9	59.8	17.6	18.4	15.7	18.4	51.5	436	308	30.2	17.2	2.30
MAX	161	132	23	25	20	22	130	1160	897	100	62	31
MIN	52	18	9.4	11	13	14	19	70	53	.00	.00	.00
AC-FT	4790	3560	1080	1130	901	1130	3070	26830	18350	1860	1060	137

WTR YR 1984 TOTAL 32215.70 MEAN 88.0 MAX 1160 MIN .00 AC-FT 63900

NOTE.--No gage-height record Nov. 28 to Apr. 11, July 22, Aug. 13, Sept. 9-24.

13114000 BEAVER CREEK AT CAMAS, ID

LOCATION.--Lat 44°00'27", long 112°13'25", in NW1/4 SW1/4 sec.21, T.8 N., R.36 E., Jefferson County, Hydrologic Unit 17040214, on right bank 0.1 mi west of railroad crossing at Camas and about 1.4 mi upstream from mouth.

DRAINAGE AREA.--510 mi2, approximately. Mean altitude, 6,190 ft.

PERIOD OF RECORD.--April 1921 to September 1982, April to September 1984 (flood season only 1971-82).

GAGE.--Water-stage recorder. Altitude of gage is 4,790 ft, by barometer. Prior to Dec. 22, 1949, nonrecording gages at nearby sites at present datum.

REMARKS.--Records good. Flow affected by irrigation diversions above Dubois, 14 mi above station, and by heavy channel losses below Dubois. Diversions above station for irrigation of about 5,800 acres 1966 determination.

COOPERATION.--Occasional inspections of recorder by Watermaster of Water District 31.

AVERAGE DISCHARGE.--49 years (1922-70), 6.00 ft3/s, 4,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 492 ft3/s May 17, 1984, gage height, 4.56 ft; no flow for long periods in each year; no flow for entire water years 1929, 1931-37, 1960, 1963.

EXTREMES FOR PERIOD APRIL TO SEPTEMBER.--Maximum discharge, 492 ft3/s May 17, gage height, 4.56 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	100	213	122	41	43
2							---	113	210	117	55	35
3							---	147	196	109	68	29
4							---	165	208	104	44	26
5							---	168	241	94	39	15
6							---	169	253	90	35	16
7							---	111	299	96	29	18
8							---	139	352	107	26	17
9							---	176	317	118	20	17
10							28	212	283	107	18	15
11							20	207	343	93	23	13
12							16	213	379	76	26	11
13							8.0	239	288	58	25	12
14							1.3	363	334	50	26	12
15							2.0	429	306	43	23	11
16							37	487	274	41	40	12
17							41	472	271	35	60	11
18							85	422	265	30	40	9.4
19							45	304	255	30	31	8.7
20							158	280	249	30	132	8.4
21							140	295	248	36	150	11
22							207	274	231	54	55	26
23							228	252	188	59	43	18
24							231	249	163	73	47	29
25							220	248	148	41	51	31
26							136	234	135	39	69	29
27							95	228	130	35	47	28
28							91	215	142	39	36	27
29							106	198	135	108	31	23
30							90	193	127	92	27	21
31							---	202	---	55	26	---
TOTAL							---	7504	7179	2180	1383	582.5
MEAN							---	242	239	70.3	44.6	19.4
MAX							---	487	379	122	150	43
MIN							---	100	127	30	18	8.4
AC-FT							---	14880	14240	4320	2740	1160

13115000 MUD LAKE NEAR TERRETON, ID

LOCATION.--Lat 43°53'25", long 112°21'28", in NE1/4 SE1/4 sec.32, T.7 N., R.33 E., Jefferson County, Hydrologic Unit 17040215, at mouth of Camas Creek, 1.4 mi northeast of First Owsley pumphouse, and 5.5 mi northeast of Terreton.

DRAINAGE AREA.--1,130 mi2, approximately, not including Medicine Lodge Creek.

PERIOD OF RECORD.--April 1921 to current year.

REVISED RECORDS.--WSP 1367: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,774.99 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 31, 1931, nonrecording gages at or near pumphouse (now used as a supplementary gage) at same datum. Oct. 31, 1931 to Sept. 30, 1954, water-stage recorder at site 2.7 mi southwest and 2 mi north of First Owsley pumphouse at same datum; Oct. 1, 1954 to Sept. 8, 1978, water-stage recorder at site 670 ft north of mouth of Camas Creek at same datum.

REMARKS.--Mud Lake is a perched body of water confined by earth dikes and fed by ground water and surface tributaries augmented by well flows and surface inflow from North Lake. Water for irrigation is diverted from lake by pumping. Other irrigation diversions are made by various means from adjacent lakes and wells and Camas Creek above lake. Area of Mud Lake is varied from time to time by changes in dikes. Figures given herein represent contents above gage height -4.0 ft. Capacity table prepared from surveys made by Geological Survey and adjusted for changes in dikes. High winds are frequent, and stage at recorder during wind does not usually represent the mean for the lake. For complete description of Mud Lake region, see WSP 818.

COOPERATION.--Water-stage recorder inspected by employees of Water District 31.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 61,660 acre-ft May 5, 1923, gage height, 9.20 ft; practically no contents Oct. 1 to Nov. 15, 1937, due to bypassing Camas Creek (see Remarks).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 61,000 acre-ft June 25, 26, gage height, 10.61 ft; minimum contents, 11,400 acre-ft Oct. 2, 3, gage height, 2.93 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

2.0	8150	8.0	37900
3.0	11600	9.0	44700
4.0	15800	10.0	54500
6.0	25700	11.0	64200

CONTENTS (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11500	19000	27200	30400	33600	36500	39300	41300	49400	58100	38000	26800
2	11400	19400	27300	30500	33600	36600	39300	41600	49400	57700	37800	26300
3	11400	19500	27500	30700	33800	36600	39300	41600	49600	56700	37700	25700
4	11700	20100	27600	30800	33900	36700	39300	41700	49700	55800	37300	25200
5	11800	20200	27600	30900	34100	36800	39400	41500	50300	54300	37100	24100
6	11800	20800	27700	31000	34200	36800	39300	41500	50600	53600	37100	23600
7	12000	20900	27800	31100	34300	36900	39200	41500	51700	52400	36600	22900
8	12300	21200	27900	31200	34400	37000	39100	41200	52800	50900	36400	22000
9	12800	21500	28100	31200	34500	37300	39100	41100	53500	49900	36000	21500
10	12800	21800	28100	31300	34800	37400	39000	40900	55700	49200	35700	21000
11	13000	22500	28200	31500	34800	37500	39000	40800	57400	47800	35300	20500
12	13100	22900	28400	31600	35000	37500	39000	40700	57800	47200	34900	19500
13	13600	23400	28400	31800	35200	37700	39100	40500	58000	46000	34500	18600
14	13700	23700	28500	31900	35200	37700	39000	40900	58000	45400	34200	19500
15	13800	23900	28600	32100	35300	38100	38900	41400	58600	44400	33400	18100
16	13900	24400	28700	32100	35300	38400	38700	41800	58600	43600	33300	17600
17	14200	24700	28800	32300	35300	38500	38600	42500	58900	42400	32800	17200
18	14400	24800	28800	32400	35500	38600	38700	43000	59200	41300	32700	16800
19	14700	25100	28900	32600	35500	38700	38900	43900	60000	40400	32200	16400
20	15100	25400	29100	32700	35500	38800	39000	44200	60200	39900	31600	16100
21	15500	25300	29100	32900	35700	38900	39100	44700	60400	39300	31300	15700
22	16000	25500	29200	33000	35700	38900	39300	45300	60500	38600	31200	15400
23	16300	25700	29400	33200	35900	38900	39500	46000	60600	38800	30200	15000
24	16300	26100	29500	33300	35900	39000	39700	46400	60800	38000	30400	14600
25	16800	26200	29800	33400	36100	39000	39900	47400	61000	38600	30200	14100
26	17100	26400	29900	33400	36100	39100	40000	47900	60800	38600	29900	13200
27	17400	26500	29900	33400	36200	39100	40200	48300	60600	38900	29200	12900
28	17600	26700	29900	33400	36200	39200	40400	49300	60400	38500	28700	12600
29	17900	26800	30000	33400	36400	39300	40800	49900	59400	38300	28000	12000
30	18100	27000	30400	33400	---	39300	40900	50000	58600	38300	27800	11600
31	18500	---	30400	33500	---	39300	---	49200	---	38100	26900	---
MAX	18500	27000	30400	33500	36400	39300	40900	50000	61000	58100	38000	26800
MIN	11400	19000	27200	30400	33600	36500	38600	40500	49400	38000	26900	11600
(†)	4.58	6.22	6.80	7.31	7.77	8.21	8.45	9.52	10.36	8.03	6.23	3.00
(‡)	+7000	+8500	+3400	+3100	+2900	+2900	+1600	+8300	+9400	-20500	-11200	-15300

CAL YR 1983........ (‡) +19800
WTR YR 1984........ (‡) +100

(†) Elevation, in feet, at end of month.
(‡) Change, in contents, in acre-feet.

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13117030 BIRCH CREEK AT EIGHT-MILE CANYON ROAD, NEAR RENO, ID

LOCATION.--Lat 44°04'49", long 112°32'30", in sec. 28, T.9 N., R.30 E., Clark County, Hydrologic Unit 17040216, Bureau of Land Management lands, 300 ft downstream from Eight-Mile Canyon road crossing, 5.5 mi downstream from Blue Dome Inn, and 14 mi southeast of Reno.

DRAINAGE AREA.--400 mi2, approximately.

PERIOD OF RECORD.--June 1967 to September 1981. March to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 5,770 ft, from topographic map.

REMARKS.--Records good. Diversions above station for irrigation of about 330 acres, 1966 determination.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 122 ft3/s Apr. 18, 1984, gage height, 1.63 ft; minimum recorded, 11 ft3/s, July 5, 1967, gage height, 0.97 ft.

EXTREMES FOR CURRENT YEAR.--Maximum recorded discharge, 122 ft3/s Apr. 18, gage height 1.63 ft; minimum, 46 ft3/s Sept. 3, 4, 5, gage height 1.06 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	77	70	60	64	71	52
2						---	76	71	62	64	67	52
3						---	76	71	62	63	64	46
4						---	76	71	63	60	64	46
5						---	75	71	61	57	67	47
6						---	81	70	63	55	65	48
7						---	81	69	69	56	66	49
8						---	81	69	72	61	56	49
9						---	80	70	70	64	61	51
10						---	78	71	72	63	51	52
11						---	78	72	80	58	52	53
12						---	77	70	75	61	63	53
13						---	76	70	70	57	63	57
14						---	76	71	69	56	65	53
15						---	81	78	69	55	60	56
16						---	87	80	69	56	65	56
17						---	90	78	72	56	53	55
18						---	90	75	71	57	61	53
19						---	77	75	70	61	61	53
20						---	76	75	71	63	60	56
21						---	72	75	71	59	58	56
22						---	71	73	69	69	60	56
23						---	72	70	69	69	61	55
24						---	73	66	70	64	57	55
25						---	75	71	70	60	58	56
26						---	75	67	64	57	58	56
27						---	70	65	64	67	54	56
28						---	72	62	62	70	52	61
29						---	70	54	62	73	52	61
30						77	73	54	63	71	49	61
31						77	---	58	---	71	52	---
TOTAL						---	2312	2162	2034	1933	1852	1615
MEAN						---	77.1	69.7	67.8	62.4	60.7	53.9
MAX						---	90	80	80	73	71	61
MIN						---	70	54	60	55	49	46

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13117360 SAWMILL CREEK ABOVE SUMMIT CREEK NEAR CLYDE, ID

LOCATION.--Lat 44°13'18", long 113°19'02", in NE1/4 SE1/4 SE1/4 sec.2, T.10 N., R.26 E., Butte County, Hydrologic Unit 17040217, Bureau of Land Management lands, 1.6 mi upstream from confluence with Summit Creek, and 6.6 mi northwest of Clyde.

DRAINAGE AREA.--107 mi2.

PERIOD OF RECORD.--July 1982 to current year (no winter records).

GAGE.--Water-stage recorder. Altitude of gage is 6,150 ft, from topographic map.

REMARKS.--Records good. Diversions upstream and bypass channels affect discharge at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 274 ft3/s May 15, 1984, gage height, 3.62 ft; minimum daily discharge, 7 ft3/s Apr. 4, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 274 ft3/s May 15, gage height, 3.62 ft; minimum discharge, 14 ft3/s Nov. 9, gage height 1.81 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

1.9	17	2.5	73
2.2	40	3.0	146
		3.5	243

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	26						46	224	101	41	25
2	26	29						45	188	91	41	24
3	24	27						45	175	88	38	22
4	24	26						46	192	84	36	21
5	22	28						46	178	80	37	21
6	21	28						44	175	78	37	24
7	21	31						43	171	76	36	24
8	21	27						44	173	75	35	24
9	30	21						49	158	73	33	23
10	29	26						68	148	70	34	21
11	26	24						73	153	67	35	21
12	24	26						91	145	64	31	21
13	24	26						130	148	61	31	21
14	26	26						180	164	59	31	21
15	24	26						237	177	55	30	21
16	24	---						216	196	53	36	21
17	24	---						153	180	50	32	19
18	25	---						135	177	50	30	19
19	24	---						145	178	48	28	13
20	24	---						177	212	47	27	19
21	24	---						184	210	51	24	21
22	24	---						177	175	49	24	22
23	24	---						175	160	53	26	22
24	23	---						164	150	49	29	23
25	22	---						145	145	43	30	24
26	22	---						140	145	40	28	21
27	22	---						133	140	51	25	21
28	23	---						125	128	48	23	21
29	24	---						152	117	55	21	21
30	25	---						198	112	48	21	21
31	25	---						212	---	43	28	---
TOTAL	749	---						3816	4984	1900	958	647
MEAN	24.2	---						123	166	61.3	30.9	21.5
MAX	30	---						237	224	101	41	25
MIN	21	---						43	112	40	21	13
AC-FT	1490	---						7570	9890	3770	1900	1280

13118700 LITTLE LOST RIVER BELOW WET CREEK, NEAR HOWE, ID

LOCATION.--Lat 44°08'19", long 113°14'39", in NW1/4 SE1/4 sec.4, T.9 N., R.27 E., Butte County, Hydrologic Unit 17040217, Bureau of Land Management lands, on right bank at Clyde School, 0.6 mi downstream from Wet Creek, and 27 mi northwest of Howe.

DRAINAGE AREA.--440 mi2, approximately.

PERIOD OF RECORD.--January 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,880 ft, from topographic map.

REMARKS.--Records good except those for periods of ice effect or no gage-height record, which are poor. Diversions above station for irrigation of about 3,800 acres of which about 2,000 acres are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--26 years, 70.6 ft3/s, 51,150 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 309 ft3/s June 16, 1975, gage height, 3.19 ft, but may have been more during period of doubtful gage-height record in 1958; maximum gage height recorded, 5.99 ft Feb. 8, 1979 (ice jam); minimum discharge recorded, 2.8 ft3/s Dec. 13, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 404 ft3/s May 16, gage height, 3.53 ft; minimum daily, 10 ft3/s Dec. 23.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Dec. 13, 14, May 16 to Sept. 30;
stage-discharge relation affected by ice Nov. 29 to Dec. 7, Dec. 15-26)

1.4	10	2.0	78
1.6	29	2.3	124
1.8	52	3.0	254
		3.7	409

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	110	22	33	38	36	60	109	348	268	171	137
2	96	110	22	32	37	37	60	108	321	253	171	132
3	93	86	23	35	38	36	60	108	306	235	163	131
4	90	84	23	38	37	36	62	110	292	232	155	127
5	87	83	19	38	36	35	66	110	297	224	160	131
6	86	83	22	38	33	35	70	108	285	224	153	136
7	86	90	24	36	31	35	66	107	279	227	149	135
8	84	84	25	37	32	36	77	109	273	225	146	135
9	102	73	27	36	36	37	75	114	260	220	143	132
10	102	80	27	36	35	38	75	133	249	214	143	129
11	94	83	27	36	34	40	63	134	262	204	141	126
12	91	81	28	36	34	42	64	159	246	200	134	125
13	90	86	28	36	37	44	63	206	242	199	132	125
14	93	81	28	32	42	48	66	264	254	193	132	126
15	93	76	26	27	37	48	81	317	263	189	129	125
16	90	78	20	25	41	49	106	366	288	184	153	115
17	90	86	19	22	39	49	131	309	303	181	144	122
18	90	84	17	18	37	49	155	273	308	178	134	122
19	89	77	17	16	34	48	139	268	307	179	131	120
20	89	77	16	23	36	55	119	286	338	175	128	125
21	87	63	15	30	38	62	108	299	359	182	123	128
22	87	49	13	31	38	58	118	283	332	181	121	130
23	86	36	10	33	39	60	129	280	304	189	129	119
24	86	39	15	33	41	58	125	275	296	193	145	131
25	86	42	20	35	40	58	116	260	311	176	148	129
26	84	32	27	35	39	60	109	250	312	169	143	116
27	84	30	25	35	38	58	104	242	300	193	133	130
28	89	31	31	37	36	60	104	242	296	195	127	129
29	101	28	33	37	36	60	110	264	296	204	122	127
30	104	19	34	36	---	60	109	296	285	189	120	129
31	107	---	33	37	---	60	---	340	---	176	144	---
TOTAL	2835	2061	716	1011	1069	1487	2790	6729	8792	6256	4367	3828
MEAN	91.5	68.7	23.1	32.6	36.9	48.0	93.0	217	293	202	141	128
MAX	107	110	34	38	42	62	155	366	359	268	171	137
MIN	84	19	10	16	31	35	60	107	242	169	120	116
AC-FT	5620	4090	1420	2010	2120	2950	5530	13350	17440	12410	8660	7590

CAL YR 1983 TOTAL 32920 MEAN 90.2 MAX 309 MIN 10 AC-FT 65300
WTR YR 1984 TOTAL 41941 MEAN 115 MAX 366 MIN 10 AC-FT 83190

Note.--No gage-height record Dec. 27 to Jan. 11, Jan. 14 to Apr. 10.

13120000 NORTH FORK BIG LOST RIVER AT WILD HORSE, NEAR CHILLY, ID

LOCATION.--Lat 43°55'59", long 114°06'47", in NE1/4 SE1/4 sec.17, T.7 N., R.20 E., Custer County, Hydrologic Unit 17040218, in Challis National Forest, on right bank 0.2 mi upstream from East Fork, 2 mi downstream from Wild Horse damsite, and 1½ mi southwest of Chilly.

DRAINAGE AREA.--114 mi2. Mean altitude, 8,540 ft.

PERIOD OF RECORD.--March 1944 to current year. Prior to October 1967, published as "Big Lost River at Wild Horse, near Chilly."

GAGE.--Water-stage recorder. Altitude of gage is 6,820 ft, from topographic map.

REMARKS.--Records good. There are several small ranch diversions upstream for local irrigation.

AVERAGE DISCHARGE.--40 years, 108 ft3/s, 12.86 in./yr, 78,250 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,420 ft3/s June 12, 1965, gage height, 6.39 ft; minimum, 5.1 ft3/s Mar. 20, 21, 1953, gage height, 1.07 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
May 15	0215	884	4.93	May 31	0345	*887	*4.94
May 21	2300	641	4.22	June 21	0730	762	4.63
				July 23	0530	380	3.53

Minimum discharge, 41 ft3/s Mar. 5, gage height, 1.61 ft, result of ice jam upstream.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 21-26)

1.5	33	3.0	208
2.0	73	4.0	545
2.5	126	5.0	887

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	109	106	79	77	66	59	92	669	460	195	116
2	67	119	102	78	71	66	59	93	523	433	172	103
3	63	118	102	80	76	64	58	96	491	422	140	97
4	60	120	103	84	75	63	60	96	425	416	152	93
5	57	121	95	89	72	61	61	96	383	386	152	92
6	56	126	97	89	72	66	62	92	371	385	145	99
7	55	154	106	89	75	63	62	91	356	395	135	96
8	55	137	106	88	70	64	64	97	335	382	128	92
9	80	125	105	83	71	64	62	118	313	350	123	88
10	82	128	107	85	77	63	62	141	293	300	121	85
11	73	136	105	85	71	63	59	164	283	274	122	81
12	69	126	104	82	72	63	61	190	277	280	119	81
13	67	126	102	85	75	63	61	317	296	273	115	79
14	67	119	100	81	72	64	66	584	312	268	112	75
15	63	119	96	84	68	63	75	842	342	233	106	75
16	61	120	74	78	74	62	95	637	405	225	123	76
17	60	121	76	75	71	62	118	469	475	223	119	74
18	58	117	70	69	70	60	125	409	504	213	109	74
19	56	110	69	64	66	59	116	425	514	212	103	70
20	56	114	68	75	68	62	105	559	683	205	101	70
21	55	114	65	85	72	66	100	583	731	207	97	72
22	54	101	67	65	69	63	109	501	589	199	95	72
23	55	96	65	82	68	60	121	502	528	334	106	71
24	53	107	75	82	69	62	122	508	544	303	117	73
25	51	111	95	81	67	58	117	454	577	265	109	65
26	51	110	91	78	67	59	109	431	621	214	104	69
27	50	110	83	79	65	61	103	446	601	222	98	68
28	55	110	77	77	67	58	97	458	609	279	93	67
29	73	105	79	74	68	60	99	534	650	313	90	66
30	91	96	80	71	---	60	93	724	592	236	89	65
31	101	---	80	73	---	57	---	827	---	199	128	---
TOTAL	1969	3513	2733	2469	2055	1925	2556	11576	14275	9082	3725	2409
MEAN	63.5	117	88.2	79.6	70.9	62.1	85.2	373	476	293	120	80.3
MAX	101	154	107	89	77	66	125	842	731	460	195	116
MIN	50	96	65	64	65	57	58	91	277	199	89	65
CFSM	.56	1.03	.77	.70	.62	.54	.75	3.27	4.18	2.57	1.05	.70
IN.	.64	1.15	.89	.81	.67	.63	.83	3.78	4.66	2.96	1.22	.79
AC-FT	3910	6970	5420	4900	4080	3820	5070	22960	28310	18010	7390	4780

CAL YR 1983	TOTAL	57986	MEAN	159	MAX	1100	MIN	15	CFSM	1.39	IN.	18.92	AC-FT	115000
WTR YR 1984	TOTAL	58293	MEAN	159	MAX	842	MIN	50	CFSM	1.39	IN.	19.02	AC-FT	115600

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13120500 BIG LOST RIVER AT HOWELL RANCH, NEAR CHILLY, ID

LOCATION.--Lat 43°59'54", long 114°01'12", in NE1/4 NW1/4 sec.30, T.8 N., R.21 E., Custer County, Hydrologic Unit 17040218, on left bank at Howell Ranch, 2.1 mi downstream from Burnt Creek, 7.7 mi downstream from East Fork, 9 mi southwest of Chilly, and 21 mi northwest of Mackay.

DRAINAGE AREA.--450 mi2. Mean altitude, 8,390 ft.

PERIOD OF RECORD.--April 1904 to November 1914, May 1920 to current year (no winter records 1904, 1906-14, 1920-38).

REVISED RECORDS.--WSP 1287: Drainage area. WSP 1317: 1905.

GAGE.--Water-stage recorder. Datum of gage is 6,621.95 ft National Geodetic Vertical Datum of 1929. See WSP 1737 for history of changes prior to June 11, 1920.

REMARKS.--Records good except those for winter periods, which are poor. No regulation. Diversions above station for irrigation of about 3,000 acres, 1966 determination.

AVERAGE DISCHARGE.--37 years (1905, 1949-84), 336 ft3/s, 10.14 in./yr, 243,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft3/s May 25, 1967, gage height, 6.02 ft; minimum observed, 19 ft3/s Dec. 12, 1939 (discharge measurement).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 900 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
May 15	2130	2710	4.82	June 21	0930	2650	4.69
May 21	0230	1880	4.08	July 29	0100	*3270	*5.17
May 31	0630	2890	4.91				

Minimum daily discharge, 172 ft3/s Apr. 4.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1 to Nov. 17; stage-discharge relation affected by ice Nov. 28 to Dec. 3)

1.5	164	2.5	608
1.7	226	3.0	938
2.0	346	4.0	1810
		5.0	2980

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	354	330	240	230	205	181	280	2280	1550	784	408
2	240	404	320	240	215	200	185	280	1780	1490	712	351
3	224	390	315	250	230	195	175	288	1640	1460	656	319
4	212	388	320	260	228	195	172	288	1450	1380	620	302
5	206	395	270	280	220	190	180	284	1270	1290	632	307
6	202	403	310	270	220	195	186	278	1210	1300	597	342
7	197	500	330	270	230	198	180	275	1160	1330	565	337
8	176	429	330	270	215	198	190	295	1030	1270	512	315
9	280	388	330	255	220	198	187	350	969	1140	496	298
10	302	407	330	250	230	195	190	433	923	985	480	282
11	260	429	330	260	215	195	180	659	945	938	474	274
12	242	396	330	250	225	195	181	608	961	919	469	262
13	234	403	327	260	230	198	180	804	953	900	468	258
14	263	376	325	250	220	198	187	1540	983	839	428	251
15	231	377	300	195	215	195	225	2550	1080	805	403	255
16	218	379	245	240	220	192	295	2070	1370	783	469	247
17	209	383	265	230	213	192	350	1450	1640	769	507	246
18	204	325	230	215	212	190	370	1220	1730	762	428	240
19	195	355	225	200	200	188	260	1250	1720	765	398	233
20	193	370	220	230	208	195	310	1650	2270	755	379	237
21	189	360	210	260	220	210	295	1760	2470	774	360	247
22	186	320	210	260	218	200	330	1500	1950	808	342	244
23	190	310	200	248	219	190	365	1530	1730	932	360	244
24	192	345	235	250	225	195	368	1620	1810	960	384	240
25	182	353	265	250	218	185	360	1400	1760	784	389	233
26	179	355	285	245	210	185	330	1320	2080	712	379	237
27	175	355	255	242	202	190	310	1390	1980	758	346	233
28	190	345	240	238	202	180	290	1450	2060	997	324	222
29	231	325	250	232	205	190	300	1730	2190	1860	307	219
30	294	275	250	222	---	190	280	2230	2000	1100	302	219
31	328	---	250	224	---	181	---	2710	---	866	413	---
TOTAL	6927	11196	8612	7586	6317	6003	7572	35292	47556	31981	14343	8100
MEAN	223	373	278	245	218	194	252	1138	1585	1032	463	270
MAX	328	500	330	280	230	210	370	2710	2470	1860	784	408
MIN	175	275	200	195	200	180	172	275	923	712	302	219
AC-FT	13740	22210	17080	15050	12530	11910	15020	70000	94320	63430	28450	16070

CAL YR 1983 TOTAL 199520 MEAN 547 MAX 3530 MIN 44 AC-FT 395700
WTR YR 1984 TOTAL 191483 MEAN 523 MAX 2710 MIN 172 AC-FT 379800

Note.--No gage-height record Nov. 18-28, Dec. 4 to May 10.

13126000 MACKAY RESERVOIR NEAR MACKAY, ID

LOCATION.--Lat 43°57'05", long 113°40'28", in NW1/4 NE1/4 SW1/4 sec.12, T.7 N., R.23 E., Custer County, Hydrologic Unit 17040218, on gate-control tower of Mackay Dam on Big Lost River and 4 mi northwest of Mackay.

DRAINAGE AREA.--788 mi2.

PERIOD OF RECORD.--January 1919 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,000 ft, Utah Construction Co. datum, or 6,000.4 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1959, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by earth- and rock-fill dam, which was reconstructed in 1917-18; storage impounded by original dam not recorded. Crest of spillway was raised 3 ft in September 1956. Capacity is 44,370 acre-ft between gage heights 7.0 and 66.5 ft, crest of spillway. Dead storage reported to be about 125 acre-ft. Water is used for irrigation of about 33,000 acres in Big Lost River irrigation district. About 12,700 acres irrigated from Big Lost River and tributaries above reservoir by surface diversions, and about 10,200 acres irrigated by subirrigation. Considerable seepage around dam because of its porous foundation, but the greater part of this water returns to Big Lost River between reservoir and station below reservoir, near Mackay. Prior to Oct. 1, 1959, contents below 1,000 acre-ft may be in error at times as readings at gage were too low because of fall in outlet channel. Figures given herein represent usable contents.

COOPERATION.--Capacity table furnished by Water District 34.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 46,070 acre-ft May 14, 1976, gage height, 67.73 ft; no available contents during periods in 1919-20, 1924, 1926, 1929, 1931-35, 1974; minimum gage height observed, 6.3 ft Aug. 5, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 45,500 acre-ft July 8, gage height, 67.30 ft; minimum, 22,700 acre-ft Sept. 11, gage height, 48.02 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

40.0	15,800
50.0	24,700
60.0	35,900
69.0	47,900

CONTENTS (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27700	34700	32700	30600	33400	---	36800	36800	43400	44500	44100	27600
2	27600	34300	32900	30700	33500	---	36900	36400	43200	44400	44000	27100
3	27500	34000	32900	30800	33600	---	37000	36000	42900	44500	43900	26500
4	27600	33700	33000	30900	33800	---	37000	35600	42300	44500	43700	25900
5	27700	33500	33000	30900	33900	---	37200	35200	41600	44800	43400	25300
6	27800	33400	33000	31000	34000	36600	37300	34700	41000	45100	43200	24800
7	27900	33500	33000	31100	34100	---	37500	34300	40900	45400	42700	24300
8	28000	33500	32900	31200	34100	---	37700	33800	40600	45400	42300	23700
9	28200	33500	32900	31300	34300	36700	37800	33500	40200	45100	41600	23200
10	28400	33500	32800	31300	34400	36800	38000	33200	39900	45000	40900	22800
11	28700	33600	32800	31400	34500	37000	38100	33100	39900	44900	40100	22800
12	29000	33600	32700	31600	34600	37100	38200	33300	40000	44800	39400	22900
13	29300	33600	32600	31700	34700	37200	38200	33700	40000	44800	38700	22900
14	29500	33600	32400	31800	34800	37300	38300	34800	40100	44800	38000	23000
15	29800	33500	32300	31900	34900	37400	38300	37300	40200	44800	37500	23000
16	30000	33400	31900	32000	35000	37500	37500	39900	40600	44700	37000	23100
17	30500	33400	31500	---	35100	37700	38100	41200	41400	44500	36500	23100
18	30900	33400	31000	---	---	37800	38900	41600	41900	44300	36000	23200
19	31400	33200	30600	---	---	37800	39100	41600	42000	44000	35400	23200
20	31900	33100	30300	---	---	37500	39100	41600	42300	43700	34800	23200
21	32400	33000	30000	---	---	37300	38900	42300	43000	43400	34100	23200
22	32900	33000	29900	32500	---	37100	38800	42100	43300	43400	33600	23200
23	33400	32900	29900	32500	---	37000	38700	42000	43300	43600	32900	23300
24	33900	32900	30000	32600	---	37000	38700	42200	43600	43900	32300	23300
25	34300	33000	30100	32700	---	36900	38600	42200	44000	44000	31700	23400
26	34800	32900	30200	32800	---	36800	38500	41900	44600	44000	31200	23400
27	34900	32900	30300	32800	---	36700	38300	41700	44600	44000	30600	23500
28	34700	32900	30300	33000	---	36600	38000	41500	44600	44300	30000	23500
29	34700	32900	30400	33100	36100	36700	37600	41500	44800	45000	29300	23500
30	34800	32800	30500	33200	---	36700	37200	42100	44900	44700	28600	23600
31	34900	---	30600	33300	---	36800	---	42900	---	44400	28100	---
MEAN	30800	33400	31600	---	---	---	38000	38400	42200	44500	37000	23900
MAX	34900	34700	33000	---	---	---	39100	42900	44900	45400	44100	27600
MIN	27500	32800	29900	---	---	---	36800	33100	39900	43400	28100	22800
†	59.14	57.38	55.68	57.85	60.19	60.69	61.05	65.42	66.88	66.52	53.27	48.89
‡	+7100	-2100	-2200	+2700	+2800	+700	+400	+5700	+2000	-500	-16300	-4500

CAL YR............ ‡ -7080
WTR YR............ ‡ -4200

†Gage height, in feet, at end of month.
‡Change in contents, in acre-feet.

13127000 BIG LOST RIVER BELOW MACKAY RESERVOIR, NEAR MACKAY, ID

LOCATION.--Lat 43°56'20", long 113°38'30", in SW1/4 NE1/4 sec.10, T.7 N., R.24 E., Custer County, Hydrologic Unit 17040218, on left bank 1.4 mi downstream from head of Sharp ditch, 1.6 mi downstream from Mackay Reservoir, and 2.3 mi northwest of Mackay.

DRAINAGE AREA.--813 mi2.

PERIOD OF RECORD.--December 1903 to August 1906 and May 1912 to March 1915 (published as "near Mackay"). January 1919 to current year.

REVISED RECORDS.--WSP 1347: 1904-6.

GAGE.--Water-stage recorder. Datum of gage is 5,946.39 ft National Geodetic Vertical Datum of 1929. Nonrecording gage prior to May 12, 1912, and June 5, 1912, to Apr. 28, 1912, at sites within 1 mi upstream at different datums, May 12 to June 4, 1912, at site 1.3 mi upstream (above Sharp ditch) at different datum, Apr. 29, 1913, to Mar. 15, 1915, at site 1 mi downstream (below Streeter ditch) at different datum.

REMARKS.--Records good. Flow completely regulated by Mackay Reservoir (see sta 13126000). Sharp ditch is only diversion between station and reservoir; about 12,700 acres of land are irrigated by diversions from river and tributaries above reservoir by surface diversions, and 10,200 acres irrigated by subirrigation.

AVERAGE DISCHARGE.--68 years (water years 1905, 1913-14, 1920-84), 314 ft3/s, 227,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,990 ft3/s June 10, 1921, gage height, 5.79 ft; minimum, 16 ft3/s Oct. 27, 1967 gage height, 1.11 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,030 ft3/s June 30, gage height, 4.95 ft; minimum daily, 117 ft3/s Oct. 22, 23.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

1.8	112	3.0	633
2.0	163	4.0	1305
2.5	356	5.0	2040

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	388	755	543	288	297	310	418	726	1840	1960	1290	771
2	381	823	498	288	297	310	419	720	1850	1620	1090	756
3	321	749	503	288	297	310	421	713	1830	1640	1020	765
4	279	811	503	288	297	310	421	707	1820	1450	1010	760
5	283	746	503	288	301	310	422	707	1820	1200	1010	748
6	288	670	503	288	301	310	423	700	1470	1100	1010	738
7	295	642	549	292	301	310	424	694	1240	1200	1000	732
8	301	645	578	292	301	310	425	688	1240	1310	995	723
9	304	648	578	292	301	314	426	668	1230	1350	985	716
10	269	645	578	292	301	314	427	682	1230	1160	974	656
11	236	659	578	292	301	314	427	575	1070	1070	966	454
12	232	676	578	292	301	314	428	516	980	922	952	373
13	234	676	608	292	306	314	428	519	986	849	940	368
14	236	675	633	292	306	314	429	523	990	849	876	366
15	239	676	626	292	306	314	430	538	991	833	832	369
16	246	676	626	292	306	316	431	662	991	810	827	371
17	179	676	620	292	306	317	432	937	995	841	822	371
18	131	676	626	292	306	318	526	1060	1280	862	818	376
19	127	676	620	292	306	424	532	1220	1540	872	817	371
20	118	676	521	292	306	532	584	1410	1750	880	815	374
21	119	626	427	292	310	532	732	1460	1870	876	810	373
22	117	590	356	292	306	532	660	1460	1890	814	809	371
23	117	590	288	292	310	532	614	1450	1920	785	805	371
24	118	590	288	292	310	532	610	1440	1680	784	798	371
25	119	590	288	292	310	532	608	1430	1630	789	796	376
26	119	590	288	292	310	505	608	1430	1700	790	795	374
27	288	590	288	297	310	470	608	1440	1930	802	788	371
28	395	590	292	297	310	440	713	1430	1950	821	783	371
29	400	590	292	297	310	416	720	1420	1960	1410	779	373
30	535	590	288	297	---	416	726	1420	2000	1710	773	371
31	639	---	288	297	---	416	---	1670	---	1460	775	---
TOTAL	8053	19812	14755	9053	8830	11908	15472	31035	45573	33619	27760	14558
MEAN	260	660	476	292	304	384	516	1001	1519	1084	895	496
MAX	639	823	633	297	310	532	732	1670	2000	1960	1290	771
MIN	117	590	288	288	297	310	418	516	980	784	773	366
AC-FT	15970	39300	29270	17960	17510	23620	30690	61560	90390	66680	55060	29530

CAL YR 1983	TOTAL	215872	MEAN	591	MAX	2050	MIN	110	AC-FT	428200
WTR YR 1984	TOTAL	240738	MEAN	658	MAX	2000	MIN	117	AC-FT	477500

Note.--No gage-height record Mar. 21 to May 10.

13128900 LOWER CEDAR CREEK ABOVE DIVERSIONS, NEAR MACKAY, ID

LOCATION.--Lat 43°57'57", long 113°34'40", in NW1/4 SW1/4 sec. 2, T.7 N., R.24 E., Custer County, Hydrologic Unit 17040218, Challis National Forest, on right bank at abandoned powerplant site, approximately 1,000 ft upstream from the heading of Nielson diversion, and 3.9 mi northeast of Mackay.

DRAINAGE AREA.--8.26 mi2.

PERIOD OF RECORD.--Water years 1963, 1964-66 (annual maximums only, published as "Cedar Creek near Mackay" and "Cedar Creek above diversions, near Mackay," respectively), August 1956 to September 1973, October 1979 to current year. Combination of discharge records for Clark ditch near Mackay and Cedar Creek (below powerplant) near Mackay for May 1920 to September 1922 (seasonal records only) is equivalent to this record.

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft, from topographic map. May 1, 1920, to Oct. 21, 1922, nonrecording gage at present site at different datums. Sept. 26, 1963, to Aug. 13, 1966, crest-stage gage at site 20 ft downstream at datum 9.32 ft lower.

REMARKS.--Records good. No regulation or diversion above station.

AVERAGE DISCHARGE.--12 years (water years 1967-73, 1980-84), 22.0 ft3/s, 36.17 in./yr, 15,940 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 310 ft3/s June 22, 1932, gage height, 3.10 ft. Minimum discharge observed, 0.4 ft3/s Nov. 21 to Dec. 1, 1921, gage height, 0.18 ft, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 255 ft3/s June 26, gage height, 2.83 ft; minimum daily, 4.8 ft3/s Apr. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	15	14	9.6	10	6.9	5.6	6.9	141	124	50	33
2	13	15	14	9.6	10	6.9	5.2	6.9	104	120	49	32
3	13	15	14	10	10	6.9	5.2	6.9	91	123	46	30
4	12	15	14	11	10	6.9	5.2	6.5	86	115	42	29
5	12	16	13	10	11	6.9	4.8	6.5	57	112	41	27
6	14	16	13	10	11	6.9	5.2	6.0	53	114	42	27
7	14	16	12	10	11	6.5	5.2	6.5	50	114	39	27
8	15	16	12	10	10	6.5	5.2	5.6	47	91	33	27
9	17	16	12	11	10	6.5	5.6	7.4	44	82	33	26
10	19	15	12	11	10	6.5	6.0	10	42	70	31	26
11	19	16	12	11	10	6.5	6.0	11	42	69	30	26
12	18	16	12	11	10	6.5	5.6	19	63	69	30	24
13	18	17	12	11	10	6.5	5.2	40	45	69	30	24
14	17	16	12	11	9.6	6.5	5.2	91	55	66	30	22
15	17	17	12	11	9.6	6.0	6.0	140	91	61	30	22
16	17	17	12	11	9.6	6.0	9.6	82	132	60	33	21
17	16	17	12	10	9.6	6.0	16	52	172	59	34	21
18	15	17	12	10	9.2	6.0	14	36	172	56	33	20
19	15	16	11	9.6	8.3	6.5	12	50	181	57	33	20
20	15	17	11	9.6	8.3	6.0	9.6	75	209	54	33	20
21	15	16	11	9.6	8.3	6.0	8.7	83	185	50	32	20
22	14	15	11	9.6	8.3	6.5	8.3	66	151	58	30	20
23	15	15	12	9.6	8.3	6.5	11	75	148	47	30	19
24	14	15	11	9.6	7.8	6.5	11	76	188	62	30	19
25	14	16	11	10	7.8	6.5	11	60	192	53	29	19
26	14	14	11	10	7.4	6.5	9.6	54	172	49	29	19
27	15	14	11	10	7.4	6.0	8.7	59	155	59	29	18
28	15	14	11	10	7.4	5.6	8.7	77	155	63	29	18
29	15	14	11	9.6	6.9	5.6	8.3	117	179	82	28	17
30	15	14	11	9.6	---	5.2	8.3	150	158	67	27	17
31	15	---	9.6	10	---	5.6	---	168	---	57	30	---
TOTAL	470	466	368.6	315.0	266.8	196.4	236.0	1650.2	3513	2332	1045	690
MEAN	15.2	15.5	11.9	10.2	9.20	6.34	7.87	53.2	117	75.2	33.7	23.0
MAX	19	17	14	11	11	6.9	16	168	209	124	50	33
MIN	12	14	9.6	9.6	6.9	5.2	4.8	5.6	42	47	27	17
CFSM	1.84	1.88	1.44	1.23	1.11	.77	.95	6.44	14.2	9.10	4.08	2.78
IN.	2.12	2.10	1.66	1.42	1.20	.88	1.06	7.43	15.92	10.50	4.71	3.11
AC-FT	932	924	731	625	529	390	468	3270	6970	4630	2070	1370

CAL YR 1983	TOTAL	11036.9	MEAN	30.2	MAX	173	MIN	4.5	CFSM	3.66	IN.	49.71	AC-FT	21890
WTR YR 1984	TOTAL	11549.0	MEAN	31.6	MAX	209	MIN	4.8	CFSM	3.83	IN.	52.01	AC-FT	22910

13132500 BIG LOST RIVER NEAR ARCO, ID

LOCATION.--Lat 43°35'00", long 113°16'10", in SW1/4 sec.17, T.3 N., R.27 E., Butte County, Hydrologic Unit 17040218, on right bank 0.4 mi downstream from slough entering from left bank and 4 mi southeast of Arco.

DRAINAGE AREA.--1,410 mi2, approximately.

PERIOD OF RECORD.--August 1946 to September 1961, May 1966 to September 1980, March 1981 to September 1981, May 1982 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,240 ft, by barometer. Prior to Oct. 14, 1952, at site 800 ft upstream at datum 3.00 ft higher.

REMARKS.--Records fair, except those for winter period which are poor. Flow regulated by Mackay Reservoir (see sta 13126000). Station is below all large diversions for irrigation in Big Lost River valley. About 57,500 acres of land irrigated by diversions from river and tributaries and by ground-water withdrawals above station. About 10,200 acres irrigated by subirrigation above Mackay Reservoir.

AVERAGE DISCHARGE.--31 years (water years 1947-61, 1967-80, 1983-84), 116 ft3/s, 84,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft3/s July 5, 1957, gage height, 7.68 ft; no flow on many days.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1965, reached a stage of 8.03 ft, from floodmarks, discharge, 2,500 ft3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,300 ft3/s June 22, gage height, 6.53 ft; minimum, 59 ft3/s July 19, gage height, 3.22 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	396	626	702	352	315	303	527	746	841	1040	1180	514
2	413	726	694	351	315	305	535	736	915	1070	1130	528
3	413	767	687	350	315	302	531	731	961	912	998	541
4	389	751	682	350	315	296	527	731	1000	719	886	559
5	360	798	688	350	315	299	531	731	1030	694	830	553
6	350	788	694	350	313	305	539	731	1070	580	793	564
7	350	762	700	350	312	305	527	721	1020	492	668	573
8	347	711	706	358	313	305	535	716	880	508	535	573
9	386	725	711	360	314	305	539	711	886	570	457	568
10	396	741	716	360	314	305	523	716	914	631	410	561
11	369	771	721	360	314	311	511	724	1080	535	356	515
12	347	788	736	360	315	311	507	668	1070	460	334	421
13	339	841	716	360	316	316	503	635	985	363	328	370
14	356	825	731	360	311	332	491	654	1000	288	302	349
15	353	814	751	360	314	341	491	701	986	240	257	332
16	344	830	745	360	316	341	499	777	912	221	301	321
17	347	847	745	360	314	341	539	836	894	181	320	303
18	318	830	745	358	311	341	580	964	875	130	326	293
19	288	798	745	352	311	341	590	973	943	96	328	293
20	280	803	745	348	312	420	612	1040	1000	90	364	278
21	261	788	745	346	313	487	630	1120	1160	94	381	281
22	253	742	700	343	314	523	644	1180	1270	205	349	278
23	248	697	465	340	314	531	638	1140	1270	223	352	282
24	243	706	342	338	316	527	668	1120	1210	258	346	290
25	240	731	342	335	314	515	682	1100	1100	280	384	295
26	233	724	342	331	314	515	692	1000	865	253	443	295
27	245	716	342	328	314	523	668	944	812	271	445	282
28	320	711	342	326	314	523	668	926	896	435	436	280
29	410	716	353	323	311	507	696	847	969	612	432	280
30	438	709	353	320	---	499	726	746	971	967	431	280
31	327	---	352	318	---	523	---	726	---	1200	463	---
TOTAL	10561	22783	19038	10757	9099	12100	17349	26073	29865	14618	15565	11852
MEAN	341	759	614	347	314	390	578	841	996	472	502	395
MAX	327	847	751	360	316	531	726	1180	1270	1200	1180	573
MIN	233	626	342	318	311	296	491	635	812	90	257	278
AC-FT	20950	45190	37760	21340	18050	24000	34410	51720	59240	28990	30870	23510

CAL YR 1983 TOTAL 174408 MEAN 478 MAX 1800 MIN 100 AC-FT 345900
WTR YR 1984 TOTAL 199660 MEAN 546 MAX 1270 MIN 90 AC-FT 396000

Note.--No gage-height record Dec. 21 to Jan. 29.

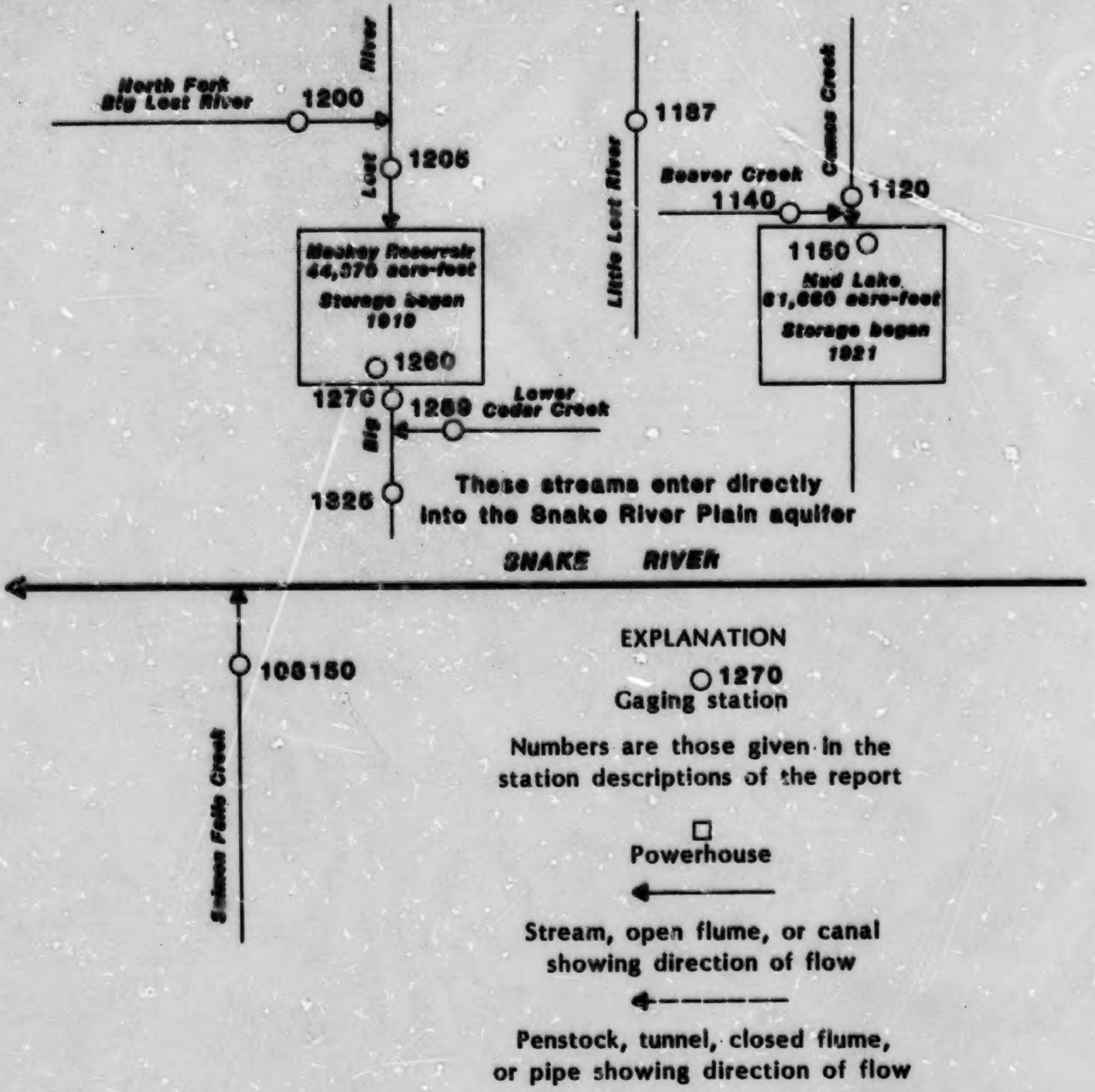
North Fork
Big Lost River
1200
Big Lost River
1205
Mackay Reservoir
44,370 acre-feet
Storage began
1919
1260
1270
1269
Lower
Cedar Creek
1325
Little Lost River
1187
Camas Creek
Beaver Creek
1140
1120
1150
Mud Lake
61,660 acre-feet
Storage began
1921
These streams enter directly
into the Snake River Plain aquifer
SNAKE RIVER
Salmon Falls Creek
108150
EXPLANATION
1270
Gaging station
Numbers are those given in the
station descriptions of the report
Powerhouse
Stream, open flume, or canal
showing direction of flow
Penstock, tunnel, closed flume,
or pipe showing direction of flow

Figure 17. -- Gaging stations in Mud Lake-Lost River basins.

13135000 SNAKE RIVER BELOW LOWER SALMON FALLS, NEAR HAGERMAN, ID

LOCATION.--Lat 42°50'55", long 114°54'02", in NW1/4 sec.2, T.7 S., R.13 E., Gooding County, Hydrologic Unit 17040212, on right bank 0.5 mi downstream from Lower Salmon Falls powerplant, 1 mi upstream from Big Wood River, 2.2 mi north of Hagerman, and at mile 572.5.

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for October 1937, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is 2,727.7 ft National Geodetic Vertical Datum of 1929 (stadia levels). Prior to Jan. 3, 1950, at site 340 ft upstream.

REMARKS.--Records good. Flow regulated by American Falls Reservoir 141.6 mi upstream. Diurnal fluctuation caused by hydroelectric plants upstream. At times, practically entire flow is diverted at Milner during irrigation seasons; only minor diversions below Milner. Most of the percolation upstream into the Snake Plain aquifer returns above station, including some water diverted from Big Wood River. Diversions above station for irrigation of about 2,330,000 acres of which about 803,000 acres are by withdrawals from ground water and about 83,000 acres are irrigated below station.

AVERAGE DISCHARGE.--47 years, 9,252 ft3/s, 6,703,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,200 ft3/s June 24, 1964, gage height, 13.73 ft; minimum, probably less than 100 ft3/s Jan. 10, 11, 1950, when river was below intake pipes; minimum daily, 3,970 ft3/s July 5, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,700 ft3/s June 13, gage height, 16.29 ft; minimum, 5,020 ft3/s July 21, gage height 6.19 ft; minimum daily, 5,660 ft3/s July 20.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

6.0	4680	10.0	13600
7.0	6600	11.0	16000
8.0	8810	13.0	21300
9.0	11200	15.0	27100
		16.3	30700

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9480	19600	17300	18600	20100	9320	16800	22900	22300	14800	12500	7910
2	10000	17300	16800	18400	20100	9380	16900	22600	23400	14100	12300	8690
3	10100	15600	16800	18700	19800	9360	17400	23100	22200	13300	12100	8510
4	9870	15300	16400	18900	18700	9360	17900	23400	22400	13000	12000	8330
5	9940	15300	14300	18900	18000	9270	18000	23600	22600	12900	11600	8100
6	10200	15300	16700	19000	17600	9290	18000	23200	22900	13800	10700	8140
7	9980	15200	17900	19600	17300	9160	17900	23600	24500	13500	8790	8300
8	10200	15100	17300	20100	16000	9270	18600	22600	25600	13700	7290	8210
9	10800	16600	17000	20300	13700	9200	18600	22800	26800	13300	7010	8100
10	10500	17600	17000	20300	12300	9320	19200	21700	28100	12700	6850	7880
11	12200	17800	16900	20300	11300	9410	19400	20800	28200	12000	6600	7700
12	12700	17700	16600	20100	11800	9180	19900	20300	28700	10500	5590	8210
13	14200	17400	16800	20400	11700	7290	20100	20000	29200	9340	6790	8370
14	13500	17300	16900	20400	12500	6720	20100	19400	29500	7430	6860	8530
15	12200	17600	16900	20100	12000	6700	20300	19400	29500	6500	7020	8650
16	15000	18600	17400	20100	12100	7340	20300	22700	29100	5960	7050	8730
17	14800	19000	17600	19600	11200	9070	20300	25600	29000	6280	7340	8800
18	14900	19400	19200	19600	9840	9250	19000	26400	28800	5840	7670	8770
19	15600	19600	19600	19600	9870	9380	18900	26600	27800	5700	7390	8540
20	17000	20000	19000	19600	9710	9730	16200	26200	27800	5660	7300	8560
21	17300	18900	18300	19600	9270	10000	15500	26400	27300	5900	7180	8720
22	17900	19000	14600	19600	9430	9910	15300	27300	27300	7200	7190	8820
23	18300	20200	17000	19600	9640	10200	15000	27600	27100	7520	7060	9800
24	18300	19400	18900	19600	9640	10200	17900	26400	26400	7680	7260	9250
25	20300	18000	18400	19600	9410	10100	20800	26600	26000	7330	8250	9530
26	21300	17600	18300	20100	9430	10100	24500	27000	23800	6910	8110	9780
27	22000	18700	18400	20100	9660	10200	25200	26600	20100	7110	8190	9220
28	21400	18900	18600	20400	9500	13800	25200	26900	16800	7440	8120	9120
29	21200	18300	18400	20400	9320	16100	23800	26000	15900	9560	8010	9240
30	21200	17700	18400	20600	---	16800	23100	25200	15400	11200	7760	9440
31	21000	---	18400	20600	---	17000	---	24000	---	11200	7840	---
TOTAL	463370	534000	542300	612800	370940	311430	579800	746900	754200	299610	256720	259950
MEAN	14950	17800	17490	19770	12790	10050	19330	24090	25140	9665	8283	8665
MAX	22000	20200	19600	20600	20100	17000	25200	27600	29500	14800	12500	9800
MIN	9480	15100	14300	18400	9270	6700	15000	19400	15400	5660	6590	7700
AC-FT	919100	1059000	1076000	1215000	735800	617700	1150000	1481000	1496000	594300	509300	515600

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CAL YR 1983    TOTAL  5225580    MEAN  14320    MAX  27700    MIN  5660    AC-FT10365000
WTR YR 1984    TOTAL  5732080    MEAN  15660    MAX  29500    MIN  5660    AC-FT11370000
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13139500 BIG WOOD RIVER AT HAILEY, ID

LOCATION.--Lat 43°31'02", long 114°19'14", in SW1/4 NE1/4 SW1/4 sec.9, T.2 N., R.18 E., Blaine County, Hydrologic Unit 17040219, on left bank 15 ft upstream from county road crossing, 0.2 mi southwest of Hailey, 0.4 mi upstream from Croy Creek, and at mile 91.0.
DRAINAGE AREA.--640 mi2, approximately. Mean altitude, 7,620 ft.
PERIOD OF RECORD.--July to December 1889, June 1915 to current year. Published as Wood River at Hailey in 1889. Previously published as Big Wood River and Big Wood Slough combined discharge.
REVISED RECORDS.--WDR ID-81-1: 1974-80 average discharge.
GAGE.--Water-stage recorder. Datum of gage is 5,295.42 ft National Geodetic Vertical Datum of 1929. Nov. 16, 1934, to Oct. 15, 1970, at datum 2.00 ft higher. July to December 1889 nonrecording gage at nearby site at different datum. June 11, 1915, to Nov. 15, 1934, nonrecording gages at present site at different datum. Nov. 10, 1971, to Sept. 30, 1972, nonrecording gages at different sites at present datum.
REMARKS.--Records fair. Diversions above station for irrigation of about 10,000 acres (1966 determination) of which about 1,200 acres are below station. Storage above station is negligible.
AVERAGE DISCHARGE.--69 years, 460 ft3/s, 333,300 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 6,130 ft3/s May 30, 1983, gage height, 7.93 ft; maximum gage height, 10.66 ft, present datum, June 12, 1921; no flow Sept. 13-23, Nov. 20, 22, 23,11911, Oct. 25, 1937.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,720 ft3/s May 31, gage height 6.10 ft; minimum recorded, 139 ft3/s Jan. 18, gage height, 0.99 ft, but may have been less during period of ice effect Dec. 19-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	517	446	366	322	283	278	291	680	3070	1850	690	411
2	470	483	362	329	275	278	301	675	2520	1760	651	393
3	449	466	351	343	281	272	308	715	2240	1730	617	382
4	433	446	362	347	278	262	322	710	2050	1640	593	370
5	421	441	311	336	272	253	340	683	1910	1530	593	369
6	413	450	347	333	272	272	377	658	1840	1520	570	385
7	405	534	366	329	277	275	389	641	1720	1500	539	384
8	413	495	374	325	269	278	409	680	1590	1430	512	375
9	491	466	370	318	276	285	413	824	1500	1300	491	370
10	517	462	355	311	291	294	409	1010	1430	1150	483	371
11	474	504	393	318	270	294	409	1050	1390	1130	483	365
12	450	479	389	304	279	294	421	1270	1330	1090	479	361
13	437	479	381	308	292	294	413	1730	1390	1050	466	359
14	441	440	381	301	286	311	429	2490	1380	965	454	335
15	429	430	374	259	260	311	495	3000	1480	933	441	325
16	425	405	315	232	294	304	870	2680	1790	900	462	320
17	417	410	318	202	281	308	933	2180	1990	878	466	315
18	409	429	311	196	262	287	990	1910	2060	851	429	310
19	409	437	274	215	250	285	933	1940	2030	835	413	310
20	409	441	241	235	272	288	873	2340	2500	824	401	305
21	397	409	232	250	291	304	883	2550	2370	835	389	300
22	397	366	215	266	285	301	967	2340	2180	835	385	270
23	393	377	218	270	269	298	1110	2200	1990	1070	376	250
24	397	413	240	281	281	294	1100	2190	2100	1010	417	260
25	393	405	260	291	275	291	1010	2050	2140	851	406	265
26	385	370	280	294	266	294	916	1990	2310	793	396	265
27	385	370	300	294	233	288	840	2110	2270	793	397	270
28	377	366	315	301	266	281	798	2200	2250	867	383	285
29	413	355	322	288	278	285	736	2400	2360	1010	375	290
30	429	333	340	275	---	281	720	2930	2210	803	374	290
31	441	---	340	275	---	291	---	3510	---	731	415	---
TOTAL	13236	12907	10033	8936	7966	8931	19225	54391	59550	34484	14536	9860
MEAN	427	430	324	289	275	288	641	1755	1985	1112	469	329
MAX	517	534	393	347	294	311	1110	3510	3070	1850	690	411
MIN	377	333	215	196	250	253	291	641	1330	731	374	250
AC-FT	26250	25600	19900	17760	15840	17710	38130	107900	118100	68400	28830	19560

CAL YR 1983	TOTAL	319574	MEAN	876	MAX	5450	MIN	155	AC-FT	633900
WTR YR 1984	TOTAL	254095	MEAN	694	MAX	3510	MIN	196	AC-FT	504000

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13141000 BIG WOOD RIVER NEAR BELLEVUE, ID

LOCATION.--Lat 43°19'40", long 114°20'25", in NW1/4 NE1/4 sec.20, T.1 S., R.18 E., Blaine County, Hydrologic Unit 17040219, on right bank at downstream end of Mahoney Flat, 1.5 mi upstream from maximum flow line of Magic Reservoir, 2.8 mi upstream from Camas Creek, 10.5 mi southwest of Bellevue, and at mile 76.0.
DRAINAGE AREA.--824 mi2, approximately.
PERIOD OF RECORD.--July 1911 to current year (no winter records prior to October 1943 except water years 1916, 1921-22, 1940-41).
GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft, from topographic map. Prior to July 5, 1921, at site 0.1 mi downstream at different datum. July 5, 1921, to Oct. 5, 1954, at site 0.2 mi upstream at different datum. Oct. 6, 1954, to Oct. 25, 1965, at site 1 mi upstream at different datum.
REMARKS.--Records fair. Diversions above station for irrigation of about 21,900 acres of which about 400 acres are by withdrawals from ground water (1966 determination). Storage above station is negligible.
COOPERATION.--Recorder inspected by employees of Water District 37.
AVERAGE DISCHARGE.--46 years (1916, 1922, 1940-41, 1943-84), 321 ft3/s, 232,600 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,310 ft3/s May 30, 1983; gage height 7.61 ft, maximum gage height, 7.74 ft June 9, 1983; minimum discharge recorded, 7 ft3/s Apr. 14, 1932, gage height, 1.10 ft, site and datum then in use.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,570 ft3/s May 31, gage height, 7.65 ft; minimum daily discharge, 110 ft3/s Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	325	382	330	290	240	201	299	701	3170	1890	491	207
2	283	420	325	290	230	199	311	693	2620	1770	460	195
3	254	405	320	305	240	196	325	709	2190	1740	415	155
4	277	385	325	310	230	188	339	709	1950	1650	388	175
5	262	380	290	300	225	183	373	678	1770	1460	358	175
6	258	390	319	300	220	185	475	641	1630	1390	353	156
7	266	450	342	295	185	190	449	598	1510	1400	282	190
8	266	435	357	290	193	190	478	605	1390	1280	252	155
9	347	410	362	280	222	193	503	693	1280	1090	234	190
10	472	410	392	280	222	196	472	892	1220	983	231	193
11	420	440	409	285	207	199	449	955	1150	781	188	175
12	403	420	403	289	210	207	437	1130	1080	701	136	171
13	376	420	398	289	231	207	431	1500	1070	647	124	155
14	392	390	392	289	248	245	431	2130	1040	549	116	154
15	392	370	387	230	216	263	484	2820	993	466	124	161
16	382	350	310	210	241	263	656	2820	1270	409	140	159
17	366	365	302	185	222	263	946	2270	1410	378	164	157
18	352	375	289	175	213	241	1010	1890	1430	368	171	159
19	342	385	273	195	193	231	1020	1830	1470	373	190	155
20	328	390	221	210	210	248	984	2110	1810	383	185	130
21	315	360	210	225	213	282	955	2440	2030	404	196	150
22	289	320	195	240	207	295	1030	2310	1680	426	210	142
23	281	330	195	240	204	307	1170	2180	1620	536	207	110
24	281	350	215	235	213	307	1200	2140	1420	643	204	113
25	273	330	235	250	213	303	1130	2000	1500	485	207	115
26	277	320	250	250	207	291	1020	1820	1790	426	201	113
27	273	320	270	245	190	275	919	1900	1890	426	204	116
28	273	320	230	255	193	259	840	1930	2080	536	196	131
29	277	305	290	240	201	259	759	2110	2360	789	180	136
30	298	295	305	230	---	267	725	2570	2360	685	178	133
31	324	---	305	230	---	282	---	3280	---	569	193	---
TOTAL	9926	11242	9496	7937	6239	7413	20633	51054	50033	25558	7180	4768
MEAN	320	375	306	256	215	239	688	1647	1668	824	232	159
MAX	472	450	409	310	248	307	1200	3280	3170	1890	491	207
MIN	254	295	195	175	185	183	299	598	993	368	116	110
AC-FT	19690	22300	18840	15740	12380	14710	40930	101300	99240	50690	14240	9460

CAL YR 1983	TOTAL	294901	MEAN	808	MAX	5120	MIN	87	AC-FT	584900
WTR YR 1984	TOTAL	211481	MEAN	578	MAX	3280	MIN	110	AC-FT	419500

Note.--No gage-height record Oct. 1-3, Nov. 2 to Dec. 5, Dec. 16, Dec. 21 to Jan. 10, Jan. 15 to Feb. 6, Feb. 20.

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13141500 CAMAS CREEK NEAR BLAINE, ID

LOCATION.--Lat 43°19'59", long 114°32'27", in NW1/4 SE1/4 sec.15, T.1 S., R.16 E., Camas County, Hydrologic Unit 17040220, on left bank 0.2 mi north of Macon siding on Hill City branch of Union Pacific Railroad, 0.2 mi downstream from Willow Creek, 2.6 mi upstream from maximum flow line of Magic Reservoir, 4 mi southeast of Blaine, and at mile 7.0.

DRAINAGE AREA.--643 mi2. Mean altitude, 5,600 ft.

PERIOD OF RECORD.--May 1912 to September 1921 and April 1923 to October 1923 (fragmentary), March 1925 to September 1944 (no winter records), October 1944 to current year. Published as Malad River near Blaine 1912-14.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,873 ft, by barometer. Prior to June 22, 1966, at site 530 ft downstream at datum 0.66 ft lower.

REMARKS.--Records good. Flow regulated by Norman Reservoir on McKinney Creek, capacity, 31,240 acre-ft, and three minor reservoirs, combined capacity, 580 acre-ft. Diversions above station for irrigation of about 9,400 acres of which about 1,500 acres are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--40 years, 192 ft3/s, 139,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 9,780 ft3/s Apr. 3, 1943; maximum gage height, 16.2 ft (site and datum then in use) Feb. 3, 1963, from floodmark; minimum discharge recorded, 1.2 ft3/s Aug. 11, 12, 1959; minimum gage height, 1.04 ft (site and datum then in use) Aug. 23, 25, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Apr. 8	2000	3510	11.80	May 16	0330	1600	7.95
Apr. 17	1745	*4740	*14.01				

Minimum discharge, 11 ft3/s, Aug. 29, 30, gage height 3.19 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 20-29, Jan. 13-24)

3.2	11	4.5	170
3.4	19	5.0	328
3.7	38	7.0	1150
4.0	78	10.0	2595
		14.0	4630

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	51	52	53	92	92	508	1030	671	204	51	14
2	34	62	55	5[illegible]	92	94	626	1170	622	183	41	14
3	37	64	57	60	92	92	764	1280	572	140	36	13
4	36	60	53	60	92	92	953	1220	498	142	35	13
5	34	62	48	60	92	90	1400	1230	564	130	30	13
6	33	60	51	59	94	96	2210	1200	560	117	29	13
7	33	69	54	56	82	102	2450	1050	568	108	26	14
8	35	78	53	50	78	103	3190	984	520	94	23	14
9	37	69	57	54	79	105	2620	936	494	86	21	14
10	46	67	59	62	84	105	2900	962	454	83	19	14
11	51	84	63	63	84	107	2540	1000	472	79	18	15
12	39	102	66	63	86	110	2340	1070	464	72	17	15
13	36	122	65	62	87	117	2240	1180	452	66	17	15
14	37	115	66	57	89	132	2390	1300	432	59	17	14
15	37	111	64	50	87	140	3000	1460	417	54	15	14
16	37	102	53	45	92	142	4080	1530	424	45	16	14
17	37	117	60	42	87	142	4600	1310	420	39	18	14
18	36	126	62	39	82	134	4300	1200	409	37	17	15
19	36	120	55	45	79	130	3100	1090	389	35	17	14
20	36	113	44	55	82	152	2500	1040	356	34	16	13
21	34	86	36	60	92	174	1900	1010	397	32	15	14
22	43	84	32	76	94	183	2000	980	370	32	14	16
23	48	83	32	78	89	198	2100	922	343	45	14	15
24	48	83	35	81	82	237	2050	958	321	59	16	20
25	47	67	39	56	89	278	2050	815	300	81	17	21
26	44	66	44	86	89	296	1650	772	293	67	16	20
27	47	69	47	97	92	296	1460	730	275	56	14	20
28	45	67	50	90	86	328	1240	705	234	50	14	19
29	47	66	52	92	90	366	1130	680	243	53	13	19
30	45	55	55	90	---	405	1050	638	224	60	11	20
31	47	---	55	90	---	468	---	667	---	58	13	---
TOTAL	1230	2480	1618	2032	2525	5516	65561	32049	12798	2418	639	469
MEAN	39.7	82.7	52.2	65.5	87.1	178	2185	1034	427	78.0	20.6	15.6
MAX	51	126	66	92	94	468	4600	1530	671	204	51	21
MIN	31	51	32	39	78	90	508	638	224	32	11	13
AC-FT	2440	4920	3210	4030	5010	10940	130000	63570	25380	4800	1270	930

CAL YR 1983	TOTAL	166524	MEAN	456	MAX	4000	MIN	13	AC-FT	330300
WTR YR 1984	TOTAL	129334	MEAN	353	MAX	4600	MIN	11	AC-FT	256500

13142000 MAGIC RESERVOIR NEAR RICHFIELD, ID

LOCATION.--Lat 43°15'19", long 114°21'25", in SE1/4 NE1/4 NE1/4 sec.18, T.2 S., R.18 E., Blaine County, Hydrologic Unit 17040219, at Magic Dam on Big Wood River, 18 mi northwest of Richfield, and at mile 67.5.

DRAINAGE AREA.--1,600 mi2, approximately.

PERIOD OF RECORD.--February 1909 to current year. Month-end contents only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 4,000 ft Idaho Irrigation Co. datum, which is reported to be about 137 ft below National Geodetic Vertical Datum. Datum of gages prior to Oct. 1, 1942, was 4,000 ft lower. Datum of gages Oct. 1, 1942, to Sept. 30, 1974, was 800 ft higher.

REMARKS.--Reservoir is formed by earth- and rock-fill dam, completed in 1909, and raised 5 ft in 1917. Capacity is 191,500 acre-ft between gage heights 821.4 ft, 2.9 ft above bottom of outlet pipe and 935.0 ft, top of 5-ft flashboards. Dead storage unknown. Water is used for irrigation of about 68,000 acres of land in Carey Act project of Big Wood Canal Co. Diversions above station for irrigation of about 32,600 acres of which about 1,900 acres are by withdrawals from ground water (1966 determination). Figures given herein represent usable contents including bank storage.

COOPERATION.--Gage readings and capacity table furnished by Water District 37.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 195,400 acre-ft May 11-13, 1969, gage height, 936.0 ft, present datum; no storage for several days in 1909, 1919-20, 1924, 1928, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 192,700 acre-ft May 17, gage height, 935.3 ft; minimum observed, 100,100 acre-ft Feb. 2, 3, gage height, 905.3 ft.

Capacity table (gage height, in feet, and contents, in acre-feet)

900	87,700	920	139,500
910	111,900	930	172,600
		936	195,400

CONTENTS (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
0800 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125800	140400	165100	129400	100300	119200	150700	180400	191100	188800	177000	139800
2	125200	141000	166200	127400	100100	120000	153000	180000	191900	188800	176300	138600
3	124700	142200	166900	125800	100100	120600	155600	179600	191100	189200	175500	137400
4	124100	143500	167600	124100	100300	121400	158300	179600	190300	189900	174400	136200
5	123800	144400	168300	123000	100800	121900	162000	179200	189900	190300	173300	134800
6	123800	145300	168300	122500	101300	122500	168000	178900	189200	191100	172600	133600
7	123000	146200	168000	121700	101300	123000	174400	178500	188800	191500	171900	132800
8	123600	147200	167600	120900	101300	123600	181100	177400	188400	192300	170800	131600
9	124400	147800	167200	120000	104300	124700	188400	176600	187600	191500	170100	130500
10	125200	148500	166500	119200	105500	125500	191900	175500	186800	191100	168700	129100
11	126000	149100	165500	119200	106800	126000	190300	177000	186800	191100	167200	128000
12	126600	150400	164800	117400	107300	126600	188800	178900	188000	191100	165800	126600
13	127700	151700	163700	116600	108000	127200	188000	181900	188800	190300	164800	125500
14	128300	153000	162700	115800	108000	128000	187600	184500	189500	189900	163700	124700
15	129100	150100	161700	115000	109300	129100	187600	189200	189900	189500	162000	123600
16	129700	149700	159600	114200	110300	130200	188800	191900	190700	188800	160300	122500
17	130500	153000	157900	113400	111100	131100	188000	192700	191100	188000	159300	121100
18	131100	154300	155900	112400	111600	132200	188400	190700	190700	187200	158300	120300
19	131900	155300	154300	111400	112100	133100	187600	189200	191100	186100	157300	119000
20	132800	156300	152300	110300	112900	133900	186400	188400	191100	185300	155300	117900
21	133300	156900	150700	109300	112900	134800	186100	185800	191500	184100	154000	116600
22	133900	157600	148100	109500	114500	136000	185300	189200	191900	183400	152600	115500
23	134800	158600	146200	107500	115300	137100	184500	189200	191500	182600	151300	114500
24	135400	159600	144100	106500	116000	138300	184500	188400	191100	181900	150100	113200
25	136000	161000	142200	105800	116300	139800	184500	185400	189900	181500	148800	111900
26	136500	161700	140400	105000	116800	141000	184100	185000	189200	180700	147500	110600
27	137100	162400	138600	106300	117400	142500	183400	187600	188800	180000	146200	109300
28	138000	163000	136500	103500	118200	143800	182600	187200	188800	179200	145000	108300
29	138600	163700	134800	102500	118700	145300	181900	186800	188400	176500	143800	107300
30	139200	164400	133100	101800	---	146900	181100	187600	188400	178100	142500	106300
31	140100	---	131400	101100	---	148800	---	189200	---	177700	141000	---
MAX	140100	164400	168300	129400	118700	148800	191900	192700	191900	192300	177000	139800
MIN	123000	140400	131400	101100	100100	119200	150700	175500	186800	176500	141000	106300
(†)	4920.0	4927.7	4917.2	4915.7	4912.6	4923.0	4932.3	4934.4	4934.2	4931.4	4920.5	4907.8
(‡)	+13600	+24300	-33000	-30300	+17600	+30100	+32300	+8100	-800	-10700	-36700	-34700

CAL YR 1983...... ‡-21900
WTR YR 1984...... ‡-20200

(†) Elevation, in feet, at end of month.
(‡) Change in contents, in acre-feet.

BEST COPY AVAILABLE

13142500 BIG WOOD RIVER BELOW MAGIC DAM, NEAR RICHFIELD, ID

LOCATION.--Lat 43°15'00", long 114°21'30", in NE1/4 SE1/4 sec.18, T.2 S., R.18 E., Blaine County, Hydrologic Unit 17040219, U.S. Bureau of Land Management lands, on right bank 0.5 mi downstream from Magic Dam, 18 mi northwest of Richfield, and at mile 67.0.
DRAINAGE AREA.--1,600 mi2, approximately.
PERIOD OF RECORD.--April 1911 to current year (no winter records 1912).
GAGE.--Water-stage recorder. Datum of gage is 4,661.6 ft National Geodetic Vertical Datum of 1929.
REMARKS.--Records good. Flow regulated by Magic Reservoir 0.5 mi upstream (see sta 13142000), Mormon Reservoir on tributary of Camas Creek (capacity, 31,240 acre-ft), and smaller reservoirs having combined capacity of about 680 acre-ft. Diversions above station for irrigation of about 32,600 acres of which about 1,900 acres are by withdrawals from ground water (1966 determination).
AVERAGE DISCHARGE.--72 years (1913-84), 480 ft3/s, 347,800 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft3/s Apr. 26, 1952, gage height, 15.68 ft, from floodmark; no flow Feb. 3, 1915.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,870 ft3/s Apr. 16, gage height, 10.07 ft; minimum, 4.2 ft3/s Nov. 11-14, gage height 1.81 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used June 19 to Sept. 30)

1.8	6	3.5	335
1.9	11	4.0	563
2.1	26	5.0	1210
2.4	60	6.0	2000
2.7	107	8.0	3800
3.0	173	10.0	5790

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	571	13	15	858	269	11	14	2160	2810	1820	999	817
2	570	12	15	838	12	11	16	2160	3190	1370	952	817
3	569	13	16	841	12	11	15	2140	2990	1140	920	817
4	527	13	16	405	11	11	15	2140	2720	1150	906	817
5	497	13	17	348	11	11	14	2130	2550	965	893	773
6	492	13	17	399	11	11	16	2130	2400	892	874	716
7	267	13	327	397	12	11	14	2130	2340	925	842	760
8	11	13	387	396	11	11	52	2130	2230	1310	817	754
9	11	13	387	400	11	12	830	2120	2090	1310	811	754
10	11	13	510	400	11	12	3850	1440	1740	1010	805	754
11	11	11	597	396	11	12	4040	1120	1310	880	799	747
12	11	13	555	396	12	12	3370	1120	1160	886	793	747
13	11	11	583	396	12	12	3120	1130	1160	939	799	747
14	11	71	688	396	11	12	2960	1160	1160	992	830	741
15	11	387	817	392	11	13	3150	2300	1160	999	861	741
16	11	505	863	392	12	12	4620	3560	1410	1010	861	741
17	11	279	863	392	11	12	5280	4160	1980	1030	842	741
18	11	15	861	392	11	12	5290	3770	1970	1050	830	741
19	11	15	859	392	11	12	4730	3300	1970	1050	830	741
20	11	14	850	392	11	12	4180	3190	1970	1080	830	741
21	11	14	823	392	11	12	3820	3130	2160	1080	830	741
22	11	14	817	392	11	13	3510	3160	2380	1090	830	741
23	11	14	817	392	11	12	3430	3100	2460	1080	831	741
24	11	15	817	392	11	12	3310	3010	2340	1080	829	741
25	11	14	817	392	11	13	3280	2880	2270	1080	826	741
26	11	15	817	387	11	13	3080	2770	2230	1070	824	741
27	11	15	819	387	11	13	2780	2630	2220	1060	824	703
28	12	15	817	387	11	13	2530	2580	2200	1060	824	685
29	12	15	817	392	11	13	2340	2330	2180	1030	824	685
30	12	15	836	392	---	13	2180	2200	1950	1030	817	685
31	12	---	861	392	---	14	---	2410	---	1010	817	---
TOTAL	3761	1596	18331	13863	583	374	75832	75560	62700	33478	26170	22411
MEAN	121	53.2	591	447	20.1	12.1	2528	2437	2090	1080	844	747
MAX	571	505	863	858	269	14	5290	4160	3190	1820	999	817
MIN	11	11	15	387	11	11	14	1120	1160	880	793	685
AC-FT	7460	3170	36360	27500	1160	742	150400	149900	124400	66400	51910	44450

CAL YR 1983 TOTAL 464730 MEAN 1273 MAX 6630 MIN 10 AC-FT 921800
WTR YR 1984 TOTAL 334661 MEAN 914 MAX 5290 MIN 11 AC-FT 663800

13147900 LITTLE WOOD RIVER ABOVE HIGH FIVE CREEK, NEAR CAREY, ID

LOCATION.--Lat 43°29'30", long 114°03'30", about center of sec.22, T.2 N., R.20 E., Blaine County, on left bank above maximum flow line of Little Wood Reservoir, 0.4 mi downstream from Copper Creek, 0.6 mi upstream from High Five Creek, 13.5 mi northwest of Carey, and at mile 83.0.

DRAINAGE AREA.--248 mi2. Mean altitude, 7,220 ft.

PERIOD OF RECORD.--October 1958 to September 1974, October 1979 to current year (no winter record in water year 1982).

GAGE.--Water-stage recorder. Altitude of gage is 5,320 ft, by barometer.

REMARKS.--Records good, except those for winter period, which are fair. Diversions above station for irrigation of about 1,300 acres, 1966 determination.

AVERAGE DISCHARGE.--20 years (1959-74, 1980-81, 1983-84), 173 ft3/s, 125,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,480 ft3/s Apr. 22, 1969, gage height, 7.01 ft; minimum, 16 ft3/s Aug. 20, 1961, gage height, 1.38 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 660 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Apr. 16	2200	1230	5.10	June 20	2345	688	4.02
May 15	1900	*1390	*5.40	July 29	0200	1110	4.83
May 31	0315	876	4.46				

Minimum discharge, 67 ft3/s Sept. 18, gage height 1.63 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used May 13-19)

1.6	69	3.0	341
2.0	125	4.0	697
2.5	219	5.0	1210
		6.0	1860

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	165	171	140	138	112	180	363	701	413	208	105
2	125	180	161	142	130	110	200	399	574	403	194	97
3	111	161	151	148	135	108	217	402	539	396	178	92
4	104	160	151	152	130	103	245	387	517	385	171	95
5	101	160	154	145	128	99	271	369	503	357	172	87
6	102	163	155	145	115	100	346	349	519	354	162	94
7	101	196	165	142	105	102	354	338	474	352	151	91
8	101	178	169	142	112	104	369	357	456	331	143	87
9	128	167	172	135	123	106	327	624	441	299	135	86
10	125	167	176	135	125	106	343	514	434	265	128	82
11	114	217	180	135	118	112	338	517	506	254	127	82
12	108	192	180	132	120	114	346	618	498	244	126	82
13	106	184	178	132	133	116	354	823	483	232	126	80
14	114	171	175	130	152	135	415	1110	476	224	125	73
15	109	165	165	112	124	148	586	1340	489	212	120	75
16	106	163	150	100	140	145	856	1150	581	210	130	75
17	106	173	147	88	130	150	895	853	592	201	132	74
18	105	161	140	84	125	136	966	709	592	194	120	72
19	104	156	130	92	114	130	842	670	564	193	113	71
20	105	158	110	100	117	137	749	783	671	189	105	74
21	104	152	100	114	124	156	758	809	664	216	98	75
22	102	145	94	114	124	165	818	719	575	227	92	75
23	105	142	94	120	124	170	833	678	523	249	95	76
24	106	158	105	120	130	173	710	655	520	251	94	76
25	101	158	115	130	128	167	598	597	535	201	101	80
26	101	140	120	130	124	160	510	556	539	179	95	80
27	99	151	130	130	116	150	446	549	506	158	91	78
28	101	165	135	135	113	150	408	563	516	250	87	79
29	117	173	140	132	110	152	384	615	543	539	83	78
30	128	173	150	130	---	136	357	711	485	288	84	78
31	137	---	150	130	---	165	---	822	---	229	102	---
TOTAL	3402	4974	4512	3916	3612	4137	15021	19749	16016	9525	3858	2447
MEAN	110	166	146	126	125	133	501	637	534	275	125	81.6
MAX	137	217	180	152	152	173	966	1340	701	539	208	105
MIN	99	140	94	84	105	99	180	338	434	179	83	71
AC-FT	6750	9870	8950	7770	7160	8210	29790	39170	31770	18910	7710	4850

CAL YR 1983	TOTAL	123787	MEAN	339	MAX	1960	MIN	55	AC-FT	245500
WTR YR 1984	TOTAL	90199	MEAN	246	MAX	1340	MIN	71	AC-FT	178900

Note.--No gage-height record Dec. 5 to Mar. 28.

13149200 LITTLE WOOD RESERVOIR NEAR CAREY, ID

LOCATION.--Lat 43°25'30", long 114°01'30", in SW1/4 sec.12, T.1 N., R.20 E., Blaine County, Hydrologic Unit 17040221, at gate-control structure near right end of Little Wood Dam on Little Wood River, 8.5 mi northwest of Carey, and at mile 78.9.

DRAINAGE AREA.--279 mi2.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,100 ft National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation). Prior to April 1953, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by earth- and rock-fill dam constructed in 1939 and raised 39.9 ft in 1959. Storage began Feb. 12, 1941. Capacity of reservoir is 29,960 acre-ft between gage heights 27.4 ft, 0.4 ft below bottom of outlet gates, and 137.3 ft, spillway crest. Water is used for irrigation of land near Carey.

COOPERATION.--Gage readings and capacity table furnished by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 30,940 acre-ft June 10, 1963, gage height, 138.99 ft; minimum observed, 66 acre-ft Aug. 17, 1959, gage height, 30.22 ft, but may have been less during period Aug. 14 to Sept. 13, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 30,300 acre-ft June 16, 17, gage height, 137.87 ft; minimum contents observed, 10,200 acre-ft Sept. 21-30; minimum gage height observed, 93.23 ft Sept. 25-30.

Capacity table (gage height, in feet, and contents, in acre-feet)

90.0	9160
100.0	12500
120.0	20900
140.0	31500

CONTENTS (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15300	20700	13800	12400	14700	22000	23200	24000	30100	29900	22800	13300
2	15600	20900	13900	12500	14900	22000	23200	24000	30100	29800	22600	13200
3	15800	21100	14000	12600	15200	22100	23300	24100	30100	29800	22200	13000
4	16000	21200	14100	12700	15400	22100	23400	24100	30100	29800	21800	12800
5	16200	21400	14100	12800	15700	22200	23400	24000	30100	29800	21400	12600
6	16400	21500	14300	12900	15900	22200	23500	24200	30100	29700	21000	12500
7	16600	21700	14400	13000	16200	22100	23200	24700	30100	29700	20700	12400
8	16800	21800	14500	13200	16400	22200	22900	25400	30000	29500	20300	12300
9	17100	22000	14600	13300	16700	22400	22700	26000	30000	29300	19900	12200
10	17400	22100	14600	13400	17000	22300	22300	26700	30100	29200	19500	12100
11	17600	22400	14400	13500	17200	22400	22000	27500	30200	29000	19200	11900
12	17900	22500	14200	13600	17500	22400	21700	28200	30200	28700	18800	11800
13	18000	22700	14000	13700	17700	22500	21300	28700	30200	28400	18400	11700
14	18200	22800	13800	13700	18000	22600	21200	29300	30200	28100	18100	11600
15	18400	22500	13500	13700	18200	22600	21000	29900	30200	27700	17700	11400
16	18500	21700	13200	13700	18500	22700	21700	30200	30300	27300	17500	11200
17	18600	20900	12900	13700	18700	22700	22700	30100	30300	26900	17200	11100
18	18800	20200	12600	13700	19000	22800	23600	29800	30200	26400	17000	10900
19	18900	19500	12300	13800	19200	22800	24100	29200	30200	26000	16700	10600
20	19000	18800	11900	13800	19500	22900	24300	29200	30200	25400	16400	10500
21	19100	18000	11600	13800	19700	22900	24600	29400	30200	25000	16200	10200
22	19300	17300	11400	13900	20000	23000	24700	29400	30100	24600	15800	10200
23	19400	16500	11600	13900	20200	24200	25300	29300	30000	24300	15500	10200
24	19500	15900	11700	14000	20500	24200	25300	29300	30000	24000	15200	10200
25	19600	15200	11900	14100	20700	24200	25200	29400	30100	23700	15000	10200
26	19700	14500	12000	14200	21000	23200	24700	29600	30100	23300	14800	10200
27	19900	13800	12200	14200	20900	23200	24200	29700	30100	23000	14500	10200
28	20000	13500	12400	14300	21300	23200	24200	29700	30100	22800	14300	10200
29	20100	13600	12500	14300	21900	23200	24100	29800	30100	23200	14000	10200
30	20300	13700	12700	14400	---	23200	24100	30100	30000	23100	13700	10200
31	20500	---	12900	14400	---	23200	---	30200	---	23000	13500	---
MEAN	18200	19300	13200	13600	18200	22800	23400	27900	30100	26800	17800	11400
MAX	20500	22800	14600	14400	21900	24200	25300	30200	30300	29900	22800	13300
MIN	15300	13500	11400	12400	14700	22000	21000	24000	30000	22800	13500	10200
(†)	119.23	103.28	100.98	105.26	122.16	124.79	126.46	137.70	137.45	124.26	102.91	93.23
(‡)	+3500	-6800	-900	+1600	+7500	+1300	+900	+6000	-200	-7000	-9500	-3300

CAL YR 1983....... ‡ -10200
WTR YR 1984....... ‡ -4800

(†) Elevation, in feet, at end of month.
(‡) Change in contents, in acre-feet.

13148500 LITTLE WOOD RIVER NEAR CAREY, ID

LOCATION.--Lat 43°23'20", long 114°00'00", in E1/2 sec.30, T.1 N., R.21 E., Blaine County, Hydrologic Unit 17040221, on right bank 0.3 mi upstream from West Canal, 1.3 mi upstream from East Canal, 2 mi downstream from Little Fish Creek, 3 mi downstream from Little Wood Reservoir, 6 mi northwest of Carey, and at mile 75.5.

DRAINAGE AREA.--312 mi2.

PERIOD OF RECORD.--April 1904 to May 1905 (gage heights and discharge measurements only), September 1926 to November 1942, April 1943 to current year. Monthly discharge only for some periods, published in WSP 1317. Records for February 1920 to September 1926 at site 6 mi upstream not equivalent owing to diversion and inflow.

GAGE.--Water-stage recorder. Datum of gage is 4,990.59 ft National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Apr. 23, 1904, to May 31, 1905, nonrecording gage, Sept. 20, 1926, to Apr. 22, 1938, water-stage recorder, and Apr. 23 to Aug. 17, 1938, nonrecording gage, all at datum 0.74 ft higher.

REMARKS.--Records good. Flow regulated by Little Wood Reservoir 3 mi upstream (see sta 13148200) and other upstream storage in Cameron and Howard Reservoirs on Little Fish Creek, combined capacity, 760 acre-ft, before dams washed out on Apr. 24, 1982. Diversions above station for irrigation of about 1,500 acres (1966 determination).

AVERAGE DISCHARGE.--57 years (1927-42, 1944-84), 158 ft3/s, 114,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft3/s, due to failure of reservoirs on Little Fish Creek Apr. 24, 1982, gage height, 16.74 ft; maximum discharge prior to Apr. 24, 1982, 6,000 ft3/s due to failure of reservoirs on Little Fish Creek Apr. 20, 1938, gage height 12.81 ft, both floods at present datum and from rating curves extended on basis of slope area measurements; maximum discharge other than dam failures, 2,680 ft3/s Apr. 27, 1952, gage height 8.95 ft; minimum 1 ft3/s Jan. 26, 1943, Jan. 20, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,260 ft3/s Apr. 22, gage height, 5.16 ft; minimum daily discharge, 13 ft3/s Feb. 11-23, 25-28, minimum gage height 0.83 ft, Oct. 2, 3.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 22-24, Jan. 15-22, Jan. 29 to Feb. 7, Feb. 9, 11, 14-16, 19-20, 22, 23, 25-29, Mar. 6; shifting-control method used Oct. 1 to Nov. 8, Apr. 27 to June 1)

1.2	12	2.0	89
1.4	21	2.5	186
1.6	35	3.0	315
1.8	58	4.0	665
		5.0	1200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEANVALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	74	103	89	24	22	219	511	762	498	305	193
2	15	96	103	89	24	37	254	551	671	469	300	186
3	14	96	105	89	24	38	283	518	557	424	355	179
4	16	94	105	89	24	38	286	467	542	400	370	174
5	18	96	103	91	24	34	320	424	561	385	365	171
6	18	96	106	91	24	37	512	280	557	401	360	151
7	19	96	108	91	24	55	667	196	540	396	345	149
8	19	103	108	93	24	80	654	193	511	407	325	153
9	21	117	110	93	19	96	633	205	481	407	325	159
10	20	119	188	91	16	123	642	211	436	313	330	154
11	19	121	292	91	13	123	640	198	480	373	315	151
12	19	119	292	83	13	127	642	346	532	387	315	151
13	19	119	289	71	13	125	643	596	544	389	320	135
14	23	119	289	71	13	132	665	874	530	431	295	159
15	55	236	289	71	13	129	591	984	515	437	280	158
16	56	374	286	71	13	138	556	1010	563	434	265	153
17	56	480	286	71	13	153	536	997	607	414	265	159
18	55	577	286	71	13	148	830	964	649	407	250	173
19	56	573	281	71	13	155	951	920	637	424	240	159
20	56	569	281	71	13	170	937	852	666	442	240	153
21	56	569	278	71	13	176	980	743	703	438	235	203
22	57	561	186	71	13	172	1070	738	665	452	250	215
23	57	554	88	73	13	172	1080	733	598	425	250	214
24	57	557	87	71	14	174	1060	697	531	380	250	212
25	57	546	85	71	13	186	1000	557	507	370	220	212
26	57	546	86	71	13	205	913	469	532	360	200	211
27	57	538	86	73	13	207	859	531	530	350	195	210
28	52	335	86	71	13	205	674	550	518	355	202	209
29	56	105	86	71	15	205	279	585	535	330	217	208
30	57	103	89	57	---	207	517	597	533	330	200	209
31	57	---	89	24	---	212	---	752	---	320	203	---
TOTAL	1211	8688	5256	2372	475	4079	19893	18249	16993	12351	8587	5397
MEAN	39.1	290	170	76.5	16.4	132	663	589	566	398	277	180
MAX	57	577	292	93	24	212	1080	1010	762	498	370	215
MIN	14	74	85	24	13	22	219	193	436	313	195	135
AC-FT	2400	17230	10430	4700	942	8090	39460	36200	33710	24500	17030	10700

CAL YR 1983 TOTAL 140770 MEAN 386 MAX 1980 MIN 14 AC-FT 279200
WTR YR 1984 TOTAL 103351 MEAN 283 MAX 1080 MIN 13 AC-FT 205400

Note.--No gage-height record July 24 to Aug. 27.

13150430 SILVER CREEK AT SPORTSMAN ACCESS, NEAR PICABO, ID

LOCATION.--Lat 43°19'22", long 114°06'29", in SE1/4 NW1/4 sec.20, T.1 S., R.20 E., Blaine County, Hydrologic Unit 17040221, on right bank at sportsman access road crossing to campground, 0.6 mi downstream from State Highway 68 crossing, 2.3 mi northwest of Picabo, and 4.3 mi southeast of Gannett.

DRAINAGE AREA.--70 mi2, approximately.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,830 ft, from topographic map.

REMARKS.--Records fair. No regulation. Several diversions above station for irrigation.

AVERAGE DISCHARGE.--10 years, 176 ft3/s, 127,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 502 ft3/s Apr. 6, 1976, gage height, 5.35 ft; maximum gage height, 6.75 ft Sept. 6, 1978 (backwater from aquatic growth); minimum daily, 69 ft3/s June 30, July 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 414 ft3/s Apr. 6, gage height, 6.05 ft; maximum gage height, 7.60 ft Oct. 4 (backwater from aquatic growth); minimum, 98 ft3/s June 2, 3, gage height, 6.51 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	275	201	200	230	180	178	310	181	115	149	187	232
2	296	215	215	200	192	178	332	187	108	153	196	234
3	286	219	215	200	180	181	330	181	109	143	195	225
4	284	208	215	210	180	178	326	176	120	143	192	231
5	279	202	205	210	180	178	341	174	137	147	192	234
6	270	201	215	200	170	176	390	172	165	147	192	235
7	262	202	216	195	181	172	370	174	173	147	187	240
8	255	194	216	190	181	172	317	170	165	145	178	243
9	265	177	216	190	178	174	312	157	157	143	178	241
10	296	188	222	180	185	172	273	153	161	149	172	227
11	279	210	220	190	181	174	244	151	183	147	175	221
12	263	210	231	190	183	178	231	151	190	153	170	217
13	257	210	222	185	190	176	227	149	196	132	173	211
14	257	190	213	180	192	192	214	149	195	128	176	210
15	253	185	211	175	185	211	213	143	172	128	181	211
16	244	180	190	170	196	218	207	145	165	132	183	204
17	240	220	198	165	187	236	205	147	161	137	185	198
18	233	210	194	160	187	222	203	147	159	139	194	192
19	222	200	185	150	185	216	200	141	151	149	194	193
20	223	190	175	155	185	220	194	137	149	149	192	195
21	221	198	170	160	183	242	192	137	143	151	187	184
22	224	195	170	170	178	249	192	136	139	161	190	186
23	215	185	160	175	176	266	187	128	136	172	194	187
24	213	195	170	180	178	288	195	130	134	172	203	186
25	208	205	190	190	193	286	183	128	137	172	215	201
26	207	215	210	190	181	269	181	125	134	170	231	214
27	204	215	210	190	178	260	181	127	134	172	230	220
28	202	215	205	200	181	266	179	128	134	192	240	203
29	202	200	190	190	181	262	176	122	137	192	228	215
30	199	185	200	190	---	271	174	118	141	198	224	224
31	201	---	210	180	---	295	---	115	---	192	227	---
TOTAL	7525	6020	6259	5700	5295	6756	7274	4579	4487	4812	6053	6407
MEAN	243	201	202	184	183	218	242	148	150	155	195	214
MAX	296	220	231	230	196	295	390	187	196	198	240	243
MIN	199	177	160	150	170	172	174	115	108	128	170	184
AC-FT	14930	11940	12410	11310	10500	13400	14430	9080	8900	9540	12030	12710

CAL YR 1983	TOTAL	79223	MEAN	217	MAX	480	MIN	130	AC-FT 157100
WTR YR 1984	TOTAL	71177	MEAN	194	MAX	390	MIN	108	AC-FT 141200

Note.--No gage-height record Nov. 21 to Dec. 6, Dec. 19 to Feb. 7.

13152500 BIG WOOD RIVER NEAR GOODING, ID

LOCATION.--Lat 42°53'12", long 114°48'08", in NE1/4 NE1/4 SW1/4 sec.21, T.6 S., R.16 E., Gooding County, Hydrologic Unit 17040219, on right bank at Hudson Ranch, 3.1 mi downstream from bridge on Bliss-Gooding highway, 4.2 mi downstream from Little Wood River, 6 mi southwest of Gooding, and at mile 7.2.

DRAINAGE AREA.--2,990 mi2, approximately.

PERIOD OF RECORD.--March 1916 to current year (fragmentary October 1923 to September 1926; no winter records for water years 1923, 1936-37, 1942; irrigation seasons only for water years 1927-35). October 1930 to September 1959, published as Malad River near Gooding.

REVISED RECORDS.--WSP 1347: 1936.

GAGE.--Water-stage recorder. Altitude of gage is 3,345 ft, from topographic map.Prior to Apr. 13, 1921, nonrecording gage at present site and datum.

REMARKS.--Records fair. Flow regulated by Magic Reservoir (see sta 13142000) and by several smaller reservoirs on tributaries and affected by deliveries from canals diverting from Snake River at Milner. Diversions above station for irrigation of about 144,000 acres of which about 4,000 acres are by withdrawals from ground water (1965 determination).

AVERAGE DISCHARGE.--52 years (1917-22, 1932-61, 1963-84), 301 ft3/s, 218,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,860 ft3/s Dec. 22, 1964, gage height, 12.15 ft, from floodmarks; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,050 ft3/s April 19, gage height, 9.34 ft; minimum, 34.9 ft3/s July 19, gage height, 1.24 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 11-13)

1.9	95.6	6.0	1220
2.0	108	7.0	2000
3.0	261	8.0	3090
4.0	470	9.0	4500
5.0	775	10.0	6250

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	639	334	574	955	272	105	361	2160	1580	1090	359	345
2	627	346	555	822	268	150	387	2420	1960	1010	387	380
3	574	342	500	905	261	180	367	2300	2200	595	425	365
4	627	361	410	920	250	247	357	2190	2070	418	439	342
5	664	382	350	840	230	257	409	2260	1990	374	434	324
6	678	391	305	780	160	229	455	2240	1890	342	416	318
7	708	398	255	340	130	208	460	2220	1840	257	402	295
8	719	423	224	520	128	250	467	2010	1650	262	365	297
9	685	420	497	505	122	564	600	1810	1620	252	307	372
10	665	411	609	500	121	746	665	1860	1700	450	250	369
11	655	384	660	505	120	850	3450	1140	1520	332	204	357
12	316	402	735	474	120	1050	3870	1350	1100	223	199	393
13	118	411	825	444	129	880	3410	936	985	146	202	366
14	149	427	900	427	139	820	3060	956	1000	147	224	369
15	118	430	936	407	150	740	3000	951	948	140	200	375
16	113	427	1020	391	137	820	3170	2070	916	133	270	434
17	125	633	1000	376	122	900	4160	2950	1020	126	249	446
18	139	793	981	340	115	627	4830	3490	1470	122	297	462
19	174	786	952	320	113	623	4950	2980	1420	114	272	465
20	192	712	900	300	115	634	4640	2490	1450	106	254	402
21	212	678	880	290	120	645	4240	2330	1460	137	231	398
22	229	655	845	292	127	568	3930	2310	1570	216	252	427
23	236	649	840	301	130	474	3570	2240	1690	293	272	531
24	233	668	840	307	127	510	3460	2180	1710	316	296	506
25	238	695	845	310	126	482	3360	2070	1670	315	305	596
26	257	662	845	302	130	411	3410	1970	1470	295	303	771
27	272	642	850	298	130	387	3140	1790	1290	303	308	695
28	293	621	850	297	125	361	2660	1610	1230	340	285	705
29	299	627	855	299	120	340	2650	1480	1290	389	261	691
30	318	580	855	293	---	332	2460	1340	1340	361	252	703
31	326	---	855	290	---	330	---	1300	---	348	284	---
TOTAL	11658	15690	22548	14220	4337	15320	76150	61153	45479	10060	9235	13732
MEAN	376	523	727	459	150	494	2538	1973	1516	325	298	458
MAX	719	793	1020	855	272	1050	4950	3490	2200	1090	439	771
MIN	113	334	224	280	113	105	357	936	916	106	199	285
AC-FT	23120	31120	44720	28210	8600	30390	151000	121300	90210	19950	18320	27240

CAL YR 1983 TOTAL 410627 MEAN 1125 MAX 4370 MIN 43 AC-FT 814500
WTR YR 1984 TOTAL 299582 MEAN 819 MAX 4950 MIN 105 AC-FT 594200

Note.--No gage-height record Dec. 2-7, Dec. 22 to Jan. 11, Jan. 18 to Mar. 17.

BEST COPY AVAILABLE

13154500 SNAKE RIVER AT KING HILL, ID

LOCATION.--Lat 43°00'09", long 115°12'06", in NW1/4 NW1/4 SW1/4 sec.7, T.5 S., R.11 E., Elmore County, Hydrologic Unit 17040212, on right bank 300 ft east of railroad station at King Hill, 20 mi downstream from Big Wood River, and at mile 546.6.
DRAINAGE AREA.--35,800 mi2, approximately. Mean altitude, 6,040 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1909 to current year.
REVISED RECORDS.--WSP 1317: 1935(M). WDR ID-76-1: 1974.
GAGE.--Water-stage recorder. Datum of gage is 2,492.3 ft National Geodetic Vertical Datum of 1929 (stadia levels). Nonrecording gage May 13, 1909, to Mar. 1, 1910, on left bank at present site at datum 2.20 ft higher, Mar. 7 to Aug. 16, 1910, 0.6 mi upstream at different datum, and Aug. 17, 1910, to Oct. 7, 1928, at present site and datum.
REMARKS.--Records good. Flow regulated by American Falls Reservoir 163.4 mi upstream. Diurnal fluctuation caused by hydroelectric plants upstream. At times, practically entire flow is diverted at Milner during irrigation seasons; only minor diversions below Milner; flow at King Hill is then derived largely from springs and seepage entering below Milner. Diversions above station for irrigation of about 2,450,000 acres of which about 675,000 acres are by withdrawals from ground water (1966 determination).
AVERAGE DISCHARGE.--75 years, 10,910 ft3/s, 7,904,000 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 47,200 ft3/s June 22, 1918, gage height, 19.3 ft, from rating curve extended above 33,000 ft3/s; minimum observed, 1,250 ft3/s Jan. 10, 1950, when flow was cut for gage repairs, gage height, 1.75 ft; minimum daily, 4,760 ft3/s June 7-9, Aug. 15, 16, 1910.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,700 ft3/s June 15, gage height 13.36 ft; minimum, 6,700 ft3/s July 19, gage height, 3.73 ft, minimum daily, 7,020 ft3/s July 20.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1 to Mar. 27)

3.0	5170	8.0	12700
5.0	7320	11.0	23200
		14.0	36300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11800	22300	19400	20200	22400	11000	19000	26600	24600	17000	13500	9580
2	12200	19900	18900	20100	22200	11300	19100	26300	26400	16200	14400	10100
3	12400	18000	18900	20300	21900	11500	19300	26700	25900	15200	12600	10300
4	12200	17500	18700	20200	20900	11500	19900	27000	25400	14200	13400	9980
5	12300	17500	16800	21300	19900	11300	20200	27600	26100	14100	12900	9770
6	12500	17500	18800	21200	19400	11200	20500	27000	25800	15000	12200	9790
7	12300	17500	20000	21700	19200	11100	20300	27400	27600	14600	10600	9900
8	12500	17200	19600	22300	18100	11300	20800	26100	28900	14800	9030	10000
9	13100	18400	19200	22600	15900	11500	21200	26100	30300	14500	8650	9900
10	12900	19600	19000	22300	14300	12000	21300	24900	31300	14000	8450	9740
11	14200	20100	19200	22700	12900	12900	23500	23600	32100	13500	8130	9550
12	14700	20000	18800	22400	13400	12900	24900	22600	32000	12100	8150	9870
13	15800	19700	19000	22600	13400	10900	24900	22400	32500	10700	8200	10100
14	16400	19700	19000	22900	14500	10200	24600	21800	32900	9320	8430	10100
15	13400	19700	19300	22300	14000	10900	24800	21600	33000	8060	8480	10400
16	16800	20700	19800	22300	14100	11000	25000	25000	32500	7410	8630	10900
17	16700	21500	20100	22000	13200	11800	25200	29100	32300	7620	8730	10600
18	16800	22300	21700	21500	11600	12100	25000	31500	32800	7390	9240	10500
19	17400	22200	22200	21400	11500	11700	25000	31100	31300	7070	9060	10500
20	18900	22800	21500	21400	11300	12200	22900	30600	31300	7020	8900	10400
21	19400	21700	20500	21800	10800	13000	20700	30100	31000	7090	8730	10600
22	19900	21400	17000	21900	10900	12800	20400	31300	30700	8400	8730	10600
23	20500	22600	19200	22000	11300	12700	19900	31800	30700	9320	8650	11500
24	20400	22300	21300	22000	11300	12700	21400	30600	30000	9140	8800	11700
25	22200	21100	21000	22800	11200	12400	25200	30300	29500	9110	8770	11000
26	23200	20200	20500	23100	11100	12200	29200	30700	27200	8430	9690	12100
27	24400	21200	20900	22700	11300	12200	29800	30200	23300	8550	9710	11300
28	23700	21400	21100	22800	11200	14900	30000	30200	19300	8850	9630	11200
29	23400	20800	20000	22900	10900	18000	28400	29400	18100	10600	9660	11300
30	23400	20200	21100	22900	---	15700	26800	28400	17900	12200	9320	11700
31	23400	---	20000	22800	---	19000	---	27300	---	12500	9450	---
TOTAL	529200	607000	612200	681500	424100	388900	699400	855300	852900	344000	304070	314560
MEAN	17070	20230	19750	21980	14620	12550	23310	27590	28430	11100	9809	10490
MAX	24400	22800	22200	23100	22400	19000	30000	31800	33000	17000	14400	12100
MIN	11800	17200	16800	20100	10800	10200	19000	21600	17900	7020	8130	9550
AC-FT	1050000	1204000	1214000	1352000	841200	771400	1387000	1696000	1692000	682300	603100	624100

CAL YR 1983 TOTAL 6017430 MEAN 16490 MAX 31100 MIN 6970 AC-FT11936000
WTR YR 1984 TOTAL 6613230 MEAN 18070 MAX 33000 MIN 7020 AC-FT13117000

13154500 SNAKE RIVER AT KING HILL, ID--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1951 to September 1980 (discontinued).
WATER TEMPERATURES: March 1951 to September 1980 (discontinued).
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 595 micromho/cm June 19, 1968; minimum daily, 296 micromho/cm May 15, 1974.
WATER TEMPERATURES: Maximum daily, 23°C Aug. 2, 1955; minimum daily, 3.0°C Dec. 11, 16, 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)
NOV 08...	1405	17100	456	8.3	19.5	11.5	10.6	107	K16	100	190
JAN 04...	1110	21200	464	8.4	7.0	5.0	12.8	108	K7	130	190
MAR 07...	1445	11500	456	8.2	14.0	9.5	10.6	101	K35	K760	190
MAY 03...	1430	26500	423	8.4	18.5	11.5	10.4	105	K18	66	170
JUL 19...	1500	7200	461	8.6	30.0	20.5	11.5	141	K6	620	190
SEP 11...	1330	9780	486	8.3	30.0	17.0	9.1	105	K10	81	190

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
NOV 08...	48	17	24	21	.8	3.8	175	38	19	.60	25
JAN 04...	50	16	22	20	.7	3.3	169	39	19	.70	25
MAR 07...	46	18	25	22	.8	4.1	178	43	24	.60	28
MAY 03...	45	15	19	19	.6	3.3	160	36	16	.50	19
JUL 19...	47	18	26	22	.8	3.8	162	41	19	.50	28
SEP 11...	47	18	26	22	.8	4.2	175	44	23	.60	29

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
NOV 08...	287	280	.39	13300	.97	.030	.90	.110	.060	.030
JAN 04...	276	280	.38	15800	.92	.060	.60	.040	.020	.030
MAR 07...	294	300	.40	8970	1.2	.120	.40	.080	.070	.050
MAY 03...	--	250	.34	18100	.66	.050	.70	.100	.030	.030
JUL 19...	284	280	.39	5520	<.10	.140	.40	.040	.010	.020
SEP 11...	304	300	.41	8030	1.1	.030	.60	.060	.040	.050

K Results based on counts outside ideal colony range.

13154500 SNAKE RIVER AT KING HILL, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 08...	3	<10	53	.6	1	3	<3	1	5	1
MAR 07...	3	20	49	<.5	<1	1	<3	1	11	<1
MAY 03...	2	20	53	.8	3	<1	4	2	27	2
SEP 11...	3	<10	46	<1	<1	<1	<3	2	5	3

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 08...	52	2	<.1	<10	<1	1	<1	260	6	5
MAR 07...	30	5	<.1	<10	6	<1	<1	250	7	32
MAY 03...	31	3	.1	<10	2	<1	<1	230	6	7
SEP 11...	29	4	.1	<10	4	<1	<1	240	8	21

DATE	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 08...	20	94
JAN 04...	11	--
MAR 07...	22	82
MAY 03...	50	93
JUL 19...	9	86
SEP 11...	12	96

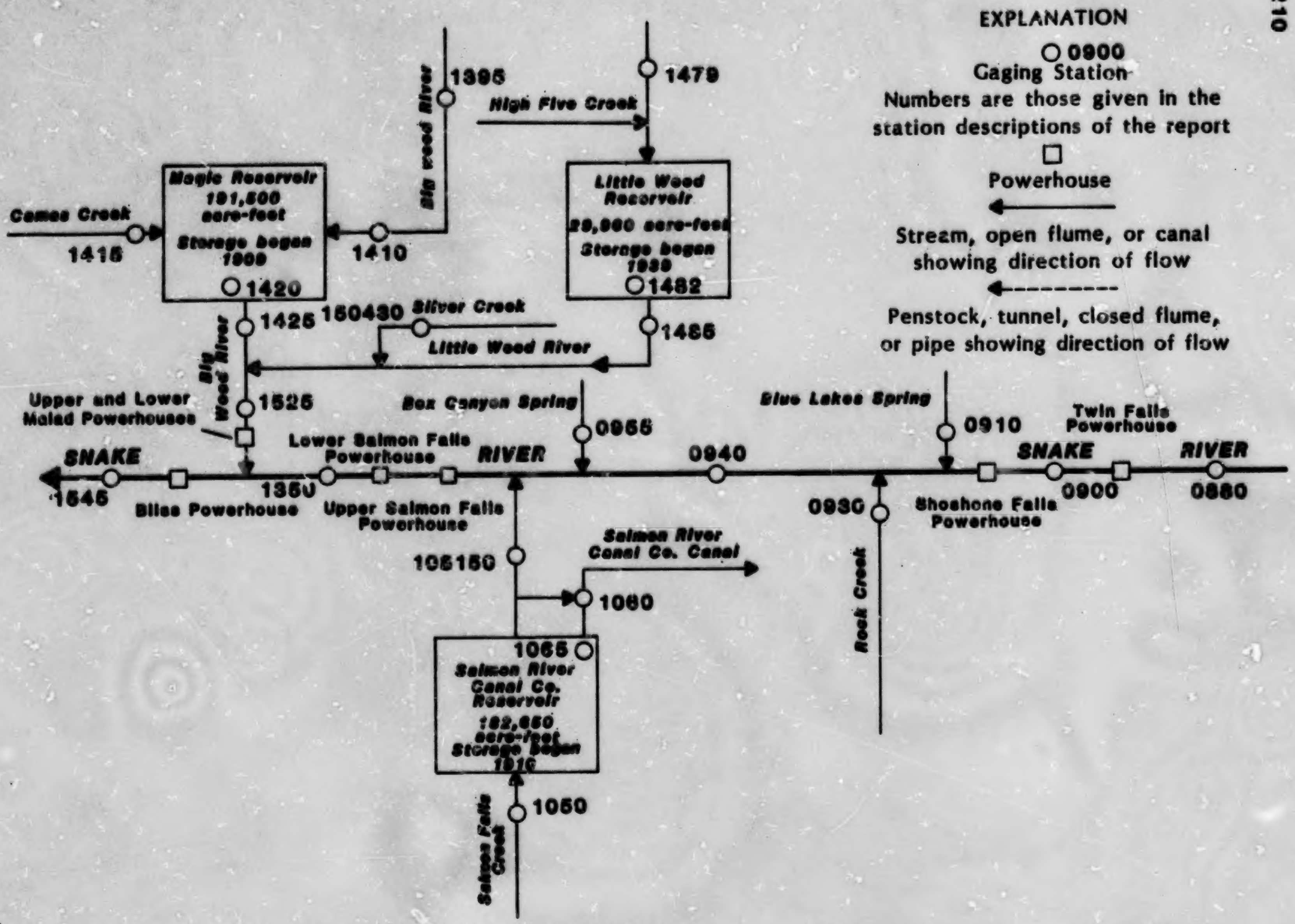
EXPLANATION
0900
Gaging Station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow
Big Wood River
1395
1479
High Five Creek
Magic Reservoir
191,600 acre-feet
Storage began 1909
1420
Camas Creek
1415
1410
Little Wood Reservoir
29,960 acre-feet
Storage began 1939
1482
1425
150430
Silver Creek
Little Wood River
1485
Big Wood River
Upper and Lower Malad Powerhouses
1525
Box Canyon Spring
0955
Blue Lakes Spring
0910
Twin Falls Powerhouse
SNAKE
RIVER
1545
Bliss Powerhouse
1350
Lower Salmon Falls Powerhouse
Upper Salmon Falls Powerhouse
0940
0930
Shoshone Falls Powerhouse
0900
0880
105150
Salmon River Canal Co. Canal
1060
Rock Creek
1065
Salmon River Canal Co. Reservoir
182,650 acre-feet
Storage began 1910
1050
Salmon Falls Creek

Figure 18. -- Gaging stations in Snake River basin between Milner and King Hill.

13159800 CANYON CREEK AT OREGON TRAIL CROSSING NEAR MOUNTAIN HOME, ID

LOCATION.--Lat 43°15'39", long 115°42'06", in SE1/4 NW1/4 SE1/4 sec. 11, T.2 S., R.6 E., Elmore County, Hydrologic Unit 17050101, on right bank 31 mi upstream from mouth, 3 mi downstream from confluence of Syrup Creek and Long Tom Creek, and 8.5 mi north of Mountain Home.

DRAINAGE AREA.--70.5 mi2.

PERIOD OF RECORD.--March to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 3,340 ft, from topographic map.

REMARKS.--Records good. Small diversions for irrigation above station. Flow partially regulated by Long Tom Reservoir.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period March to September, 370 ft3/s Mar. 21, gage height, 3.15 ft; minimum, 8.50 ft3/s July 26, gage height, 1.21 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

1.2	8.5	2.0	93
1.3	15	2.5	173
1.5	32	3.0	318

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						34	157	129	77	64	55	51
2						40	162	127	74	64	56	50
3						43	163	128	73	64	54	49
4						44	164	125	74	65	54	49
5						45	172	124	75	78	55	50
6						49	177	122	78	77	55	50
7						55	169	119	78	74	55	50
8						68	172	119	77	71	55	49
9						86	177	118	75	69	54	49
10						114	173	118	75	69	53	45
11						132	171	119	77	72	53	45
12						138	167	118	77	70	53	44
13						135	166	116	77	66	52	44
14						169	161	113	74	67	52	44
15						221	168	117	74	67	52	44
16						193	206	115	74	67	53	44
17						222	228	109	73	66	52	44
18						193	234	104	71	66	52	43
19						187	207	102	71	65	52	43
20						197	189	99	71	64	52	43
21						272	178	94	70	62	52	43
22						263	176	92	70	61	52	43
23						217	173	89	70	57	53	44
24						209	164	86	69	19	52	44
25						197	153	85	69	14	49	43
26						200	143	83	66	10	50	45
27						184	138	82	66	35	50	44
28						179	136	82	66	52	50	44
29						171	133	78	64	58	50	43
30						164	128	78	64	54	50	44
31						161	---	77	---	53	52	---
TOTAL						4585	5109	3269	2169	1840	1629	1367
MEAN						148	170	105	72.3	59.4	52.5	45.6
MAX						272	234	129	78	78	56	51
MIN						34	128	77	64	10	49	43

13161500 BRUNEAU RIVER AT ROWLAND, NV

LOCATION.--Lat 41°56'00", long 115°40'23", in NW1/4 SE1/4 sec.29, T.47 N., R.56 E., Elko County, Hydrologic unit 17050102, Humboldt National Forest, on left bank 2 mi upstream from McDonald Creek and 0.5 mi south of Rowland.

DRAINAGE AREA.--382 mi2. Area at crest-stage site, 380 mi2.

PERIOD OF RECORD.--June 1913 to September 1918 (published as "near Rowland"), water years 1962-66 (annual maximum), October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,500 ft, from topographic map. June 1913 to September 1918, nonrecording gage at different site and datum. October 1961 to September 1966, crest-stage gage at site 3 mi upstream at different datum.

REMARKS.--Records poor, no gage-height record Oct. 20 to Feb. 6, and May 4 to July 17. Minor diversions for irrigation above station.

AVERAGE DISCHARGE.--23 years, 127 ft3/s, 92,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,140 ft3/s May 14, 1984, gage height, 12.01 ft; minimum daily, 2.5 ft3/s Sept. 15, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Mar. 22	0200	296	6.31	May 3	2400	1360	8.96
Apr. 18	0200	1430	9.25	May 14	0600	*2140	*12.01
Apr. 24	0700	1390	9.06				

Minimum daily discharge, 32 ft3/s Sept. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	37	44	51	80	80	188	755	980	560	182	50
2	47	37	44	51	80	81	185	932	900	520	175	47
3	42	37	44	52	80	81	181	1180	850	480	146	45
4	37	37	44	52	80	79	196	1300	830	450	136	43
5	36	37	44	52	80	74	239	1210	800	435	116	42
6	35	37	44	53	80	85	291	1080	780	420	107	43
7	36	37	44	54	81	86	272	947	760	410	100	43
8	36	37	44	55	82	91	300	977	750	380	94	42
9	39	37	44	56	80	109	305	1230	740	350	87	39
10	42	37	44	56	82	125	322	1430	720	310	90	37
11	42	37	44	57	81	131	322	1550	710	275	100	36
12	39	37	44	58	81	141	320	1720	690	250	94	35
13	40	38	44	59	101	147	322	1890	670	220	91	35
14	49	39	44	60	108	178	381	2070	660	200	90	33
15	45	39	45	61	92	185	632	1960	660	185	88	33
16	41	40	45	62	98	191	998	1610	660	172	81	36
17	41	41	45	63	89	189	1350	1450	690	168	79	35
18	40	41	45	64	76	166	1370	1350	720	166	73	32
19	39	41	45	65	75	185	1170	1230	760	163	68	32
20	37	42	46	65	72	219	962	1200	780	165	63	33
21	37	43	46	68	68	284	831	1200	800	187	61	42
22	37	44	46	69	72	281	952	1180	820	200	57	39
23	37	44	47	70	78	263	1210	1180	820	182	57	38
24	37	44	47	72	80	267	1330	1180	790	153	56	46
25	37	44	47	73	78	241	1120	1170	730	168	55	44
26	37	44	48	74	73	248	975	1120	700	142	62	43
27	37	44	48	75	68	218	870	1050	680	144	56	43
28	37	44	49	76	79	200	769	1000	660	142	55	43
29	37	44	49	76	79	204	741	900	630	136	56	42
30	37	44	50	77	---	188	725	900	580	124	52	42
31	37	---	50	78	---	186	---	950	---	122	53	---
TOTAL	1223	1204	1414	1955	2353	5204	19829	38931	22320	7979	2680	1193
MEAN	39.5	40.1	45.6	63.1	81.1	168	661	1256	744	257	86.5	39.8
MAX	53	44	50	78	108	284	1370	2070	980	560	182	50
MIN	35	37	44	51	68	74	181	755	580	122	52	32
AC-FT	2430	2390	2800	3880	4670	10320	39330	77220	44270	15830	5320	2370

CAL YR 1983	TOTAL	64781	MEAN	177	MAX	1590	MIN	19	AC-FT 128500
WTR YR 1984	TOTAL	106285	MEAN	290	MAX	2070	MIN	32	AC-FT 210800

BEST COPY AVAILABLE

13168500 BRUNEAU RIVER NEAR HOT SPRING, ID

LOCATION.--Lat 42°46'16", long 115°43'10", in NE1/4 NE1/4 SE1/4 sec.34, T.7 S., R.6 E., Owyhee County, Hydrologic Unit 17050102, on right bank, 1 mi downstream from Hot Creek, 1.5 mi south of Hot Spring, 9 mi southeast of Bruneau, 15 mi downstream from East Fork, and at mile 22.0.

DRAINAGE AREA.--2,630 mi2, approximately. Mean altitude, 5,600 ft.

PERIOD OF RECORD.--July 1909 to March 1915, October 1943 to current year.

REVISED RECORDS.--WSP 1063: 1913. WSP 1517: 1910(M). WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,598.5 ft National Geodetic Vertical Datum of 1929. Prior to Mar. 12, 1910, nonrecording gage at site 0.2 mi upstream at different datum. Mar. 12, 1910, to Mar. 15, 1915, nonrecording gage at present site and datum.

REMARKS.--Records good. Several small reservoirs on tributaries above station. Diversions above station for irrigation of about 12,900 acres, 1966 determination.

AVERAGE DISCHARGE.--46 years (1909-14, 1943-84), 409 ft3/s, 296,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,860 ft3/s May 15, 1984, gage height, 13.03 ft; minimum, 20 ft3/s Nov. 29, 1979, gage height, 2.98 ft, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,860 ft3/s May 15, gage height, 13.03 ft; minimum, 32 ft3/s Dec. 23, gage height, 3.32 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 26-29, Jan. 1)

Oct. 1 to June 24				June 25 to Sept. 30			
3.2	46	5.0	670	4.0	140	6.0	975
3.5	112	6.0	1210	4.5	256	7.0	1620
4.0	248	8.0	2530	5.0	476	9.0	3274
4.5	437	10.0	4080				
		13.0	6830				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	142	143	435	233	269	593	1700	4520	2180	507	208
2	181	150	198	420	248	272	641	1840	3950	1910	600	213
3	170	155	211	357	230	281	627	2380	3470	1750	577	210
4	156	152	206	428	233	269	593	2960	3180	1680	524	196
5	143	146	180	500	239	260	655	3100	3430	1590	506	187
6	136	144	131	578	233	239	864	2310	3300	1500	464	179
7	120	145	207	513	236	269	1060	2450	3430	1480	423	179
8	115	151	236	464	245	257	923	2190	3160	1500	395	195
9	123	166	241	441	239	301	994	2350	2760	1370	372	185
10	131	161	249	407	254	468	967	3120	2660	1240	350	179
11	133	153	269	369	254	569	978	3710	3290	1110	332	171
12	138	155	273	353	230	583	934	4730	3180	1020	339	165
13	131	161	274	333	294	578	996	5550	2940	969	328	160
14	134	165	256	321	441	680	951	5910	2930	913	328	158
15	156	164	260	266	550	1040	1210	6470	3240	858	325	155
16	168	153	281	173	486	929	1930	6220	3400	804	321	155
17	159	157	235	121	428	807	2950	5240	3370	768	310	155
18	147	168	258	119	345	685	3650	4310	3310	726	297	155
19	142	234	230	119	251	564	3380	4090	3350	692	286	147
20	140	216	242	119	227	651	2790	4450	3440	687	263	145
21	134	203	161	119	291	928	2280	5040	3410	692	250	147
22	130	181	72	178	325	1100	2070	5030	3210	825	241	153
23	129	165	64	269	269	986	2300	4310	2900	893	241	153
24	129	186	64	305	257	876	2700	4950	2770	836	235	166
25	136	198	67	349	294	859	2760	4890	2730	736	235	165
26	136	229	90	361	269	730	2310	4530	2640	682	225	171
27	131	193	170	345	239	715	2120	4510	2540	643	222	163
28	127	204	150	317	224	651	1900	4430	2440	614	216	160
29	131	210	200	294	234	611	1740	4290	2350	596	208	160
30	129	177	224	263	---	608	1660	4440	2370	563	208	160
31	134	---	329	242	---	569	---	4640	---	528	210	---
TOTAL	4305	5184	6171	9879	8318	18604	49426	127170	93670	32357	10341	5115
MEAN	139	173	199	319	287	600	1648	4102	3122	1044	334	171
MAX	181	234	329	578	550	1100	3650	6470	4520	2180	600	213
MIN	115	142	64	119	224	239	593	1700	2350	528	208	145
AC-FT	8540	10280	12240	19590	16500	36900	98040	252200	185800	64180	20510	10150

CAL YR 1983 TOTAL 203574 MEAN 558 MAX 3390 MIN 54 AC-FT 403800
WTR YR 1984 TOTAL 370539 MEAN 1012 MAX 6470 MIN 64 AC-FT 735000

13169500 BIG JACKS CREEK NEAR BRUNEAU, ID
(Hydrologic bench-mark station)

LOCATION.--Lat 42°47'06", long 115°59'00", in NW1/4 SE1/4 sec.28, T.7 S., R.4 E., Owyhee County, Hydrologic Unit 17050102, Bureau of Land Management lands, on left bank, 0.2 mi upstream from confluence with Little Jacks Creek, 11.5 mi southwest of Bruneau, and at mile 12.7.

DRAINAGE AREA.--253 mi2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1938 to October 1949, July 1965 to current year. Prior to October 1968, published as "Wickahoney Creek near Bruneau."

REVISED RECORDS.--WDR Idaho 1967: Drainage area.

GAGE.--Water-stage recorder and a self-cleaning broad-crested concrete weir. Altitude of gage is 2,310 ft, by barometer. December 1938 to October 1949 at site 145 ft upstream at different datum.

REMARKS.--Records good except those for winter period and May to July, which are poor. No diversion or regulation.

AVERAGE DISCHARGE.--29 years (1940-49, 1966-84), 4.74 ft3/s, 3,430 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft3/s Jan. 22, 1943, gage height, 12.4 ft, from high-water mark (site and datum then in use), on basis of slope-area measurement of peak flow; no flow for long periods most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 505 ft3/s Apr. 16, gage height, 3.86 ft; no flow Dec. 25, 26.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 23, 24, 27, 28, Jan. 17-20, Feb. 8, 10, 12-16)

1.6	0.0	2.2	9.1
1.7	.10	2.3	14
1.8	.54	2.5	29
1.9	1.4	2.7	53
2.0	3.0	3.0	110
2.1	5.5	3.3	201
		3.7	392

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	5.2	4.6	3.3	4.6	9.1	52	69	75	29	19	15
2	6.5	5.2	7.2	9.5	2.4	9.1	55	73	62	28	19	15
3	6.5	4.9	6.5	5.5	7.9	9.1	58	75	52	23	19	14
4	5.8	4.6	5.8	11	7.9	8.3	66	76	58	20	18	14
5	5.5	4.3	1.7	21	14	8.3	88	76	65	18	19	13
6	5.2	4.3	5.8	27	6.1	9.1	142	74	74	18	17	14
7	4.9	4.3	11	28	9.1	8.7	121	69	73	17	16	15
8	4.9	4.6	13	22	17	8.3	108	67	67	18	16	15
9	5.8	4.6	14	19	14	8.7	113	70	64	17	15	14
10	6.1	4.6	13	17	19	10	92	79	62	15	14	13
11	5.8	4.6	17	16	16	13	84	94	58	15	14	14
12	5.8	4.9	18	15	25	17	78	110	62	15	14	14
13	5.5	5.2	18	14	45	22	97	130	58	15	14	14
14	5.5	5.2	16	11	85	29	131	125	57	16	14	14
15	5.5	4.9	16	3.2	80	61	301	110	55	14	16	14
16	5.5	4.9	16	.41	50	61	342	100	60	14	16	13
17	5.5	4.9	15	.40	10	53	268	93	56	13	16	13
18	5.2	7.9	13	.15	7.9	45	212	84	53	14	15	13
19	5.2	8.7	12	.20	6.9	39	131	92	59	16	14	13
20	5.2	7.9	7.5	.60	7.5	43	103	100	61	17	14	13
21	5.2	7.5	2.1	2.6	13	71	94	100	54	18	14	14
22	4.9	7.5	1.4	11	9.5	73	88	94	48	18	14	14
23	4.6	6.9	1.0	22	8.3	59	84	100	45	22	15	14
24	4.9	6.1	.40	26	14	67	82	92	43	19	15	14
25	4.9	6.5	.00	30	11	66	80	87	42	17	14	14
26	4.6	6.9	.00	22	9.1	64	78	90	40	16	14	14
27	4.6	6.5	.20	13	8.3	56	76	85	37	19	14	14
28	4.6	6.1	.80	13	10	52	76	84	35	19	14	14
29	4.6	6.5	2.4	11	10	55	73	87	32	19	13	14
30	4.6	4.6	3.6	9.1	---	49	71	94	30	22	13	14
31	4.9	---	7.2	5.8	---	52	---	91	---	19	14	---
TOTAL	164.8	170.8	250.20	394.76	528.5	1135.7	3444	2770	1637	558	473	417
MEAN	5.32	5.69	8.07	12.7	18.2	36.6	115	89.4	54.6	18.0	15.3	13.9
MAX	6.5	8.7	18	30	85	73	342	130	75	29	19	15
MIN	4.6	4.3	.00	.15	2.4	8.3	52	67	30	13	13	13
AC-FT	327	339	496	783	1050	2250	6830	5490	3250	1110	938	827

CAL YR 1983	TOTAL	3542.76	MEAN	9.71	MAX	111	MIN	.00	AC-FT	7030
WTR YR 1984	TOTAL	11943.76	MEAN	32.6	MAX	342	MIN	.00	AC-FT	23690

Note.--No gage-height record May 6 to July 18.

13169500 BIG JACKS CREEK NEAR BRUNEAU, ID--Continued
(Hydrologic bench-mark station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-76, March 1978 to January 1980, March 1982 to current year.
REMARKS.--Because of insignificant or no flow, unable to sample for water quality during water year 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV 07...	1255	4.3	137	8.7	11.5	13.5	10.2	109	K16	110	43
MAR 07...	1015	7.9	143	8.4	6.0	1.5	12.6	97	K2	K51	43
MAY 03...	1010	75	123	8.2	14.0	10.5	10.1	101	K16	57	42
JUL 18...	1100	16	159	7.9	36.0	23.5	--	--	110	170	--
SEP 10...	1400	14	156	8.9	23.0	18.5	8.9	106	38	120	49

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV 07...	12	3.1	11	34	.8	3.7	60	7.4	5.1	.40	37
MAR 07...	12	3.2	12	36	.8	3.2	59	10	7.2	.40	27
MAY 03...	12	2.9	10	32	.7	3.6	49	11	6.8	.20	34
SEP 10...	14	3.3	12	33	.8	4.4	59	10	6.6	.40	41

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 07...	112	120	.15	1.3	<.10	.020	.60	.040	.040	.010
MAR 07...	105	110	.14	2.2	<.10	.050	.20	.030	.020	<.010
MAY 03...	117	110	.16	24	.21	.070	.60	.080	.060	.050
SEP 10...	125	130	.17	4.7	<.10	.040	.60	.060	.040	.030

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV 07...	1	60	40	<.5	1	<1	<3	1	49	2
MAY 03...	1	530	50	.6	<1	<1	<3	3	310	7

K Results based on counts outside ideal colony range.

13169500 BIG JACKS CREEK NEAR BRUNEAU, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV										
07...	25	2	<.1	<10	<1	<1	<1	72	<6	13
MAY										
03...	5	4	<.1	<10	<1	<1	<1	69	<6	64

DATE	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
OCT								
06...	2.6	.8	3.9	.9	3.3	.9	.08	.22

DATE	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV		
07...	16	--
MAR		
07...	20	--
MAY		
03...	58	--
JUL		
18...	15	97
SEP		
10...	8	93

13172500 SNAKE RIVER NEAR MURPHY, ID

LOCATION.--Lat 43°17'31", long 116°25'12", in NW1/4 NE1/4 SE1/4 sec.35, T.1 S., R.1 W., Ada County, Hydrologic Unit 17050103, on right bank 4.2 mi downstream from Swan Falls powerplant, 7.3 mi northeast of Murphy, and at mile 453.5.

DRAINAGE AREA.--41,900 mi2, approximately.

PERIOD OF RECORD.--August to October 1912, August 1913 to current year.

REVISED RECORDS.--WSP 1737: 1933(M).

GAGE.--Water-stage recorder. Datum of gage is 2,271.17 ft National Geodetic Vertical Datum of 1929. Prior to Sept. 7, 1914, nonrecording gage, and Sept. 7, 1914, to Sept. 30, 1935, water-stage recorder at site 3.5 mi upstream at datum 0.79 ft higher.

REMARKS.-- Records good. Major regulation by American Falls Reservoir 260.5 mi upstream. Diurnal fluctuation caused by hydroelectric plants upstream. Diversions above station for irrigation of about 2,590,000 acres of which about 721,000 acres are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--71 years, 11,190 ft3/s, 8,107,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,300 ft3/s June 22, 1918, gage height, 13.95 ft, site and datum then in use; minimum, 3,650 ft3/s July 7, 1951, gage height, 2.22 ft; minimum daily, 4,530 ft3/s June 26, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35,300 ft3/s June 16, gage height, 12.35 ft; minimum, 5,600 ft3/s Aug. 23, gage height, 2.93 ft; minimum daily, 5,990 ft3/s Aug. 23.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

3.0	5800	8.0	20200
4.0	8600	10.0	26800
6.0	14600	12.3	35100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11100	23700	20700	22700	23200	12200	20300	29600	29800	19000	13100	8830
2	11000	22400	19700	22500	23200	12900	20600	27600	28100	18000	13500	9000
3	11400	19700	18900	22200	23100	11600	21400	27700	29400	16900	14700	9060
4	12300	17800	19300	22200	22700	11100	21400	29100	28800	16200	14300	9420
5	13000	18000	19600	22700	21400	12100	21600	30400	27400	14600	13300	7800
6	12000	18200	17700	23600	20100	12300	21500	30900	25000	15700	13200	10000
7	12500	17400	19600	23400	19400	12300	22300	29500	30200	15200	12500	9410
8	13200	18200	18700	23900	19100	11400	22400	29700	30800	15700	9300	9420
9	13700	18200	20500	24700	17900	11300	22600	29100	32100	14500	8970	9450
10	13500	19000	21500	24800	16000	13300	23300	28100	32600	13600	8490	9700
11	13600	20400	23500	26700	15500	13700	23600	26300	34300	13800	7780	9130
12	14000	20100	22800	24700	13200	14600	25000	26700	34400	12800	7730	9210
13	16400	20200	22400	24500	14700	14300	26600	27400	34400	9620	7280	9520
14	16400	20300	22800	24200	13900	11100	25000	29500	34000	9200	8230	9900
15	16400	20100	22500	24300	16200	11500	26300	25600	34000	9200	8000	10500
16	13900	20100	22000	23800	15400	13300	27200	30600	34600	8190	7840	11700
17	16100	20700	21900	23600	15400	13100	28200	33100	35100	7600	8260	10300
18	17100	22100	22100	22700	15500	14300	30100	34800	34900	7220	9630	10700
19	17500	22500	23100	22600	13400	13900	30500	34900	34800	6940	9420	10500
20	18300	22400	23800	22300	12700	13900	28100	34800	34600	6240	9510	9550
21	19000	22800	22200	22100	10600	14400	26300	34700	32600	7300	9000	10600
22	19700	22000	21400	22100	10300	16800	23300	34500	33300	6880	8600	9660
23	20500	21400	18400	22100	11000	14200	23000	34500	32600	8460	5990	10200
24	20800	23100	18700	22100	12900	15700	22900	34500	32200	10000	8460	11300
25	20800	22000	19600	22100	11200	15100	24500	34500	31000	10100	8690	13200
26	23100	20700	20600	23500	12100	15100	30700	34500	30400	9620	9600	10400
27	23200	21000	21200	23800	12200	13900	31900	34200	27700	9200	10100	10900
28	24700	20900	21300	23200	12200	12900	32000	33200	22000	9280	9280	12500
29	23600	21800	21400	23200	12300	17500	30800	33900	19800	9230	9370	11000
30	23100	21500	22000	23200	---	20000	29900	32000	19700	9740	9600	11000
31	23700	---	21800	23400	---	20400	---	31100	---	11800	9110	---
TOTAL	525400	618700	651700	720900	456800	430200	762600	968700	922400	352210	302640	305950
MEAN	16950	20620	21020	23250	15750	13880	25420	31250	30750	11360	9763	10200
MAX	24700	23700	23800	24800	23200	20400	32000	34900	35100	19000	14700	13200
MIN	11000	17400	17700	22100	10300	11100	20400	26700	19800	6240	5990	7800
AC-FT	1042000	1227000	1293000	1430000	906100	853300	1513000	1921000	1830000	698600	600300	606900

CAL YR 1983	TOTAL	6316340	MEAN	17300	MAX	31200	MIN	6360	AC-FT 12524000
WTR YR 1984	TOTAL	7018230	MEAN	19180	MAX	35100	MIN	5990	AC-FT 13921000

Note.--No gage-height record Dec. 10 to Jan. 18, May 24, 25, Aug. 15.

13176000 OWYHEE RIVER ABOVE CHINA DIVERSION DAM, NEAR OWYHEE, NV

LOCATION.--Lat 41°55'20", long 116°04'10", in NW1/4 sec.6, T.46 N., R.53 E., Elko County, Hydrologic Unit 17050104, in Duck Valley Indian Reservation, on right bank 1,000 ft downstream from Skull Creek, 1 mi upstream from China diversion dam, and 2 mi southeast of Owyhee.

DRAINAGE AREA.--458 mi2.

PERIOD OF RECORD.--March 1939 to April 1984 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 5,425 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1939, at datum 1.48 ft higher.

REMARKS.--Records fair. Numerous diversions above station for irrigation. Flow partly regulated by Wild Horse Reservoir.

AVERAGE DISCHARGE.--44 years, 149 ft3/s, 108,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,790 ft3/s about May 18, 1975, gage height, 10.84 ft, from inside high-water marks; minimum, 1.8 ft3/s Nov. 16, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,100 ft3/s Apr. 17, gage height, 10.23 ft; minimum daily, 34 ft3/s Oct. 21-23, 27-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	46	63	80	112	205	386					
2	85	44	63	72	150	195	398					
3	82	40	58	68	140	190	402					
4	78	38	48	62	135	175	466					
5	75	37	57	55	128	160	580					
6	74	37	74	68	120	170	677					
7	74	40	72	80	115	183	562					
8	75	41	89	102	110	190	617					
9	81	38	94	96	118	207	594					
10	81	37	100	68	130	233	577					
11	80	38	97	80	118	240	587					
12	65	41	99	74	100	252	577					
13	58	41	70	68	130	292	682					
14	68	39	80	62	100	513	791					
15	64	39	56	58	120	482	1070					
16	61	38	60	55	135	434	1540					
17	60	48	66	52	150	408	1910					
18	49	68	62	62	115	373	1670					
19	37	54	68	71	90	381	1420					
20	35	53	54	80	105	471	1250					
21	34	53	45	92	125	611	1080					
22	34	58	39	102	155	537	1170					
23	34	51	35	112	130	503	1390					
24	36	60	43	125	140	521	1480					
25	35	84	56	150	150	455	1310					
26	35	61	70	140	140	450	1220					
27	34	63	90	130	128	413	1160					
28	34	63	70	120	135	388	1090					
29	34	53	60	112	150	385	1040					
30	35	47	76	105	---	369	980					
31	40	---	86	100	---	384	---					
TOTAL	1752	1450	2130	2724	3674	10770	28676					
MEAN	56.5	48.3	68.7	87.9	127	347	956					
MAX	85	84	100	150	155	611	1910					
MIN	34	37	35	52	90	160	386					
AC-FT	3480	2880	4220	5400	7290	21360	56860					

CAL YR 1983 TOTAL 117430 MEAN 322 MAX 2170 MIN 15 AC-FT 232900

13181000 OWYHEE RIVER NEAR ROME, OR

LOCATION.--Lat 42°52'02", long 117°38'52", in SE1/4 NE1/4 sec.14, T.31 S., R.41 E., Malheur County, Hydrologic Unit 17050107, on right bank 0.5 mi downstream from Jordan Creek, 2.6 mi north of Rome, and at mile 122.4.

DRAINAGE AREA.--8,000 mi2, approximately.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,344.20 ft National Geodetic Vertical Datum of 1929. Prior to Feb. 10, 1960, at datum 0.24 ft lower.

REMARKS.--Records excellent. Flow regulated by Antelope Reservoir, capacity, 70,000 acre-ft, increased in 1970, and Wild Horse Reservoir, capacity, 32,690 acre-ft, and numerous small reservoirs. Diversions above station for irrigation.

AVERAGE DISCHARGE.--35 years, 1,019 ft3/s, 738,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,500 ft3/s Dec. 24, 1964, gage height, 16.7 ft, from floodmark; minimum, 42 ft3/s Aug. 12, 1954, July 28, Aug. 5, 1961, July 31, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 5,400 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Mar. 16	0100	11400	10.86	Apr. 17	1700	*24900	*14.98
Mar. 21	1800	15000	12.34	May 4	1230	13000	10.99
Apr. 5	1600	17600	12.99	May 16	1300	17000	12.54

Minimum, 220 ft3/s Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	231	288	685	1300	998	1120	7170	7760	6740	2210	605	366
2	256	292	655	1400	992	1690	7420	9720	6500	1840	600	404
3	273	296	660	1400	980	2560	7310	10800	6060	1810	645	399
4	304	304	670	1400	926	2110	7440	12300	5680	1720	580	417
5	324	312	665	1450	890	1640	9160	11300	5640	1610	600	408
6	316	312	680	1500	872	1470	14900	10300	5920	1510	615	395
7	316	316	710	1600	890	1650	12800	9240	6290	1440	565	382
8	316	312	956	1650	920	2340	11900	8920	6540	1370	525	382
9	292	320	1250	1650	962	3560	13100	9280	6390	1320	485	386
10	292	340	1410	1550	998	4690	10900	10100	5890	1240	458	395
11	292	344	1660	1480	1010	5560	9680	10300	5820	1150	444	374
12	284	348	2250	1330	1020	6440	8300	11700	5120	1030	426	354
13	292	372	2310	1310	1410	7020	9450	12700	5940	963	413	350
14	312	388	2060	1200	2230	7940	11200	13900	5920	903	404	350
15	296	376	3440	1050	3290	10400	15800	15000	5320	861	408	347
16	304	358	3670	815	2960	10200	20400	16400	5120	807	408	350
17	312	376	2730	690	2360	8870	22700	15100	4920	747	413	340
18	308	400	2110	665	2020	7660	22800	12300	4580	730	426	340
19	300	600	1810	645	1750	6950	20100	10900	4370	708	431	322
20	288	650	1500	645	1460	6640	16700	10300	4490	702	422	301
21	277	670	1220	806	1380	9980	14500	10200	4380	686	413	308
22	266	670	968	1040	1240	13400	13500	10200	4050	675	404	329
23	273	610	690	1170	1250	11700	13500	9870	3760	697	390	340
24	300	550	595	1170	1200	12100	14000	9700	3470	697	382	333
25	300	535	540	1140	1140	11100	12400	9370	3210	747	374	326
26	296	670	590	1350	1040	9180	10300	8920	2990	741	358	354
27	280	932	968	1440	1070	8850	9050	8390	2760	686	354	382
28	277	944	1350	1290	1080	7300	8340	7980	2570	655	359	374
29	277	812	1510	1190	1100	6600	7560	7510	2400	615	358	366
30	277	760	1470	1080	---	6340	7080	7150	2260	600	366	354
31	280	---	1200	1030	---	6990	---	6890	---	600	374	---
TOTAL	9011	14467	42812	37439	39438	203950	369960	324500	146100	32070	14004	10829
MEAN	291	482	1381	1208	1360	6579	12330	10470	4870	1035	452	361
MAX	324	944	3670	1650	3290	13400	22800	16400	6740	2210	645	417
MIN	231	288	540	645	872	1120	7080	6890	2260	600	354	301
AC-FT	17870	28660	84920	74260	78230	404500	733800	643600	289800	63610	27780	21480

WTR YR 1984 TOTAL 1244559 MEAN 3400 MAX 22800 MIN 231 AC-FT 2469000

13185000 BOISE RIVER NEAR TWIN SPRINGS, ID

LOCATION.--Lat 43°39'33", long 115°43'34", in NW1/4 NE1/4 sec.27, T.4 N., R.6 E., Boise County, Hydrologic Unit 17050112, Boise National Forest, on right bank 0.7 mi upstream from Birch Creek, 1.3 mi upstream from maximum flow line of Arrowrock Reservoir, 3.2 mi downstream from Twin Springs, 13 mi upstream from Arrowrock Dam, and at mile 88.5.
DRAINAGE AREA.--830 mi2, approximately. Mean altitude, 6,350 ft.
PERIOD OF RECORD.--March 1911 to current year.
GAGE.--Water-stage recorder. Datum of gage is 3,255.70 ft National Geodetic Vertical Datum of 1929. March 1911 to Apr. 3, 1915, nonrecording gage, and Apr. 4, 1915, to Sept. 30, 1965, water-stage recorder at site 0.3 mi downstream at datum 5.26 ft lower.
REMARKS.--Records good.
AVERAGE DISCHARGE.--73 years, 1,215 ft3/s, 19.93 in./yr, 882,400 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,800 ft3/s Dec. 23, 1964, gage height, 12.20 ft, from floodmark, site and datum then in use; minimum, 105 ft3/s Nov. 28, 1976, gage height, 2.64 ft; minimum gage height, 1.48 ft Dec. 5, 7, 1960 (site and datum then in use).
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,700 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Apr. 18	0700	4,360	7.40	May 31	0600	9,220	9.29
May 15	0630	*10,300	*9.69	June 21	0700	6,450	8.15

Minimum daily discharge, 350 ft3/s Dec. 23.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 22; shifting-control method used Oct. 1-20)

3.5	330	5.0	1300
4.0	563	6.0	2510
4.5	880	7.0	4110
		9.5	9780

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	741	563	664	520	465	557	1090	1720	7070	3830	1020	547
2	625	553	642	500	475	620	1170	1910	5800	3510	1010	580
3	614	647	636	520	475	636	1210	1980	5060	3540	992	553
4	569	608	620	540	491	620	1300	2010	4670	3600	947	525
5	544	642	507	555	475	620	1460	1930	4540	3200	902	501
6	532	687	591	560	525	669	1590	1820	4560	3140	864	574
7	519	1090	642	560	557	699	1560	1740	4330	3120	824	642
8	507	940	669	560	574	808	1700	1830	4120	2920	793	514
9	647	800	636	550	596	917	1790	2290	3730	2630	767	535
10	723	754	711	535	625	1100	1650	2760	3460	2330	743	544
11	620	1110	723	545	550	1150	1530	2890	3300	2210	761	525
12	580	1120	761	530	532	1100	1450	3300	3300	2120	741	513
13	569	1040	729	520	631	1030	1330	5440	3280	2060	723	496
14	591	932	705	450	832	1230	1290	7490	3350	1910	705	491
15	569	848	669	400	717	1280	1650	9780	3610	1790	687	483
16	544	832	576	410	675	1240	2720	7860	6440	1720	711	470
17	532	977	550	430	636	1230	4170	5580	5040	1650	693	460
18	519	1010	544	400	569	1110	4610	4900	5020	1570	658	455
19	507	887	563	365	501	1050	3920	4940	4980	1520	636	445
20	501	840	475	380	507	1100	3200	6010	5880	1460	620	465
21	491	711	416	405	614	1690	2790	6270	6080	1390	608	509
22	485	614	390	445	591	1630	2740	5650	4840	1350	603	519
23	513	704	350	430	563	1480	3160	5710	4330	1740	636	491
24	532	747	390	540	544	1440	3220	5550	4490	1510	614	496
25	496	767	425	600	539	1350	2850	4900	4860	1330	597	485
26	486	669	475	525	496	1270	2310	4710	5260	1290	580	485
27	475	681	535	500	465	1170	2230	4940	5200	1280	563	475
28	470	693	515	490	496	1100	2030	5080	5080	1310	544	465
29	486	631	520	455	532	1060	1870	5780	5240	1250	525	465
30	496	525	525	437	---	1010	1770	7540	4960	1130	519	460
31	525	---	510	437	---	1060	---	8590	---	1060	620	---
TOTAL	17008	23722	17662	15134	16237	33026	65580	143700	139830	64260	22211	15505
MEAN	549	791	570	488	560	1065	2186	4635	4663	2073	716	517
MAX	741	1120	761	600	832	1690	4610	9780	7070	3830	1020	647
MIN	470	525	350	365	465	557	1090	1720	3280	1060	519	446
CFSM	.66	.95	.69	.59	.67	1.28	2.63	5.58	5.62	2.50	.86	.62
IN.	.76	1.06	.79	.68	.73	1.48	2.94	6.44	6.27	2.88	.99	.69
AC-FT	33740	47050	35030	30020	32210	65510	130100	285000	277500	127500	44060	30750

CAL YR 1983	TOTAL	647121	MEAN	1773	MAX	10400	MIN	350	CFSM 2.14	IN.	29.00	AC-FT	1284000
WTR YR 1984	TOTAL	573925	MEAN	1568	MAX	9780	MIN	350	CFSM 1.89	IN.	25.72	AC-FT	1138000

Note.--No gage-height record Dec. 23 to Jan. 27.

13186000 SOUTH FORK BOISE RIVER NEAR FEATHERVILLE, ID

LOCATION.--Lat 43°29'40", long 115°18'20", in lot 6, NE1/4 sec.19, T.2 N., R.10 E., Elmore County, Hydrologic Unit 17050113, on right bank 2.5 mi upstream from Deer Creek, 8 mi southwest of Featherville, and at mile 59.0.

DRAINAGE AREA.--635 mi2. Mean altitude, 6,840 ft.

PERIOD OF RECORD.--April 1945 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,220 ft, from topographic map.

REMARKS.--Records good. No regulation. Diversions above station for irrigation of about 450 acres, 1966 determination.

AVERAGE DISCHARGE.--39 years, 813 ft3/s, 17.39 in./yr, 589,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,960 ft3/s May 30, 1983, gage height, 7.87 ft; minimum, 30 ft3/s Feb. 10, 1949, gage height, 0.60 ft, result of snowslide upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Apr. 24	0015	2670	4.46	May 31	1030	6420	6.99
May 15	0500	*6790	7.20	June 20	1030	4680	5.91

Minimum daily discharge, 215 ft3/s Dec. 23.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 19-25, Dec. 27 to Jan. 6, Jan. 14-22, 26-30)

1.4	207	3.0	1010
1.7	270	4.0	2100
2.0	360	5.0	3390
2.5	594	6.0	4850
		7.0	6450

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	455	386	383	320	315	336	557	1280	5540	2780	608	379
2	394	434	390	310	321	343	608	1400	4680	2550	602	354
3	379	414	383	325	318	333	628	1470	4160	2490	576	346
4	364	390	383	340	324	327	676	1460	3890	2350	540	336
5	353	390	339	350	321	321	741	1400	3620	2160	519	330
6	350	414	354	350	324	339	819	1330	3600	2060	504	350
7	343	589	394	350	327	350	837	1300	3350	1990	484	364
8	339	504	422	350	327	368	954	1430	3090	1840	474	357
9	446	446	394	346	321	398	944	1770	2830	1660	460	346
10	464	434	402	327	339	442	899	2170	2660	1500	450	333
11	402	563	402	336	330	464	828	2310	2540	1370	460	327
12	383	546	394	330	336	469	792	2900	2400	1290	455	324
13	375	519	361	324	346	459	732	3970	2380	1200	450	321
14	383	474	386	280	354	504	766	5450	2450	1100	440	315
15	372	446	379	245	333	489	1050	6450	2630	1020	418	315
16	364	442	333	260	333	469	1740	5650	3280	963	418	312
17	361	469	309	270	336	474	2510	4510	3740	917	438	306
18	354	451	312	250	321	442	2550	3930	3770	872	410	303
19	350	430	310	230	300	442	2340	3990	3740	837	398	300
20	346	430	290	240	300	504	2060	4650	4510	783	386	303
21	346	379	260	260	327	708	2020	4970	4400	758	379	330
22	339	346	230	280	343	669	2140	4570	3730	792	383	315
23	343	383	215	306	327	655	2550	4420	3390	1280	386	309
24	343	430	235	336	330	662	2570	4280	3390	992	379	309
25	336	414	260	375	333	621	2270	3940	3550	810	372	312
26	336	379	281	335	318	602	1980	3810	3710	732	364	312
27	333	375	330	315	306	563	1740	4000	3660	716	354	309
28	333	394	320	300	312	551	1550	4110	3570	855	346	306
29	339	379	325	290	327	540	1430	4500	3590	801	336	306
30	350	339	330	295	---	530	1340	5460	3350	692	333	303
31	379	---	325	300	---	551	---	6230	---	635	379	---
TOTAL	11354	12989	10431	9525	9449	14925	42621	109110	105200	40795	13501	9732
MEAN	366	433	336	307	326	481	1421	3520	3507	1316	436	324
MAX	464	589	422	375	354	708	2570	6450	5540	2780	608	379
MIN	333	339	215	230	300	321	557	1280	2380	635	333	300
CFSM	.58	.68	.53	.48	.51	.76	2.24	5.54	5.52	2.07	.69	.51
IN.	.67	.76	.61	.56	.55	.87	2.50	6.39	6.16	2.39	.79	.57
AC-FT	22520	25760	20690	18890	18740	29600	84540	216400	208700	80920	26780	19300

CAL YR 1983	TOTAL	467189	MEAN	1280	MAX	7640	MIN	215	CFSM	2.02	IN.	27.37	AC-FT	926700
WTR YR 1984	TOTAL	389632	MEAN	1065	MAX	6450	MIN	215	CFSM	1.68	IN.	22.83	AC-FT	772800

13190000 ANDERSON RANCH RESERVOIR AT ANDERSON RANCH DAM, ID

LOCATION.--Lat 43°21'31", long 115°26'43", in NW1/4 SW1/4 SE1/4 sec.1, T.1 S., R.8 E., Elmore County, Hydrologic Unit 17050113, Boise National Forest, at inlet structure of outlet works of Anderson Ranch Dam on South Fork Boise River, 1.5 mi downstream from Camas Creek, 20.5 mi northeast of Mountain Home, and at mile 43.5.

DRAINAGE AREA.--980 mi2, approximately.

PERIOD OF RECORD.--December 1945 to current year.

REVISED RECORDS.--WDR Idaho 1969: 1968(m).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by U.S. Bureau of Reclamation). Prior to June 8, 1962, nonrecording gage or supplementary gage in powerhouse read once daily.

REMARKS.--Reservoir is formed by earth-fill dam. Storage began Dec. 15, 1945. Usable contents, 464,200 acre-ft between elevations 3,992 ft and 4,196 ft, top of spillway gates. Elevation of spillway crest, 4,174 ft, and of top of dam, 4,206 ft. Dead storage below 3,992 ft is 28,980 acre-ft. Figures given herein represent usable contents. Water is used for irrigation in Boise valley and for power production.

COOPERATION.--Capacity table and daily readings furnished by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 473,600 acre-ft June 11, 1983, elevation, 4,197.98 ft; no usable contents prior to Jan. 27, 1946; minimum since full capacity was attained June 21, 1951, 63,830 acre-ft Jan. 6, 1962, elevation, 4,058.35 ft.

EXTREMES FOR CURRENT YEAR.--Maximum observed contents, 467,900 acre-ft June 30, elevation 4,196.78 ft; minimum observed, 258,500 acre-ft Feb. 10-12, elevation 4,143.85 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

4,135.0	230,500	4,170.0	352,000
4,145.0	262,300	4,185.0	413,900
4,155.0	296,500	4,200.0	483,400

CONTENTS (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	461000	463000	402200	334900	265700	261500	292200	315400	444700	467500	463900	432800
2	461300	461600	400200	332400	264100	261700	293000	314300	449600	466800	464000	430400
3	462000	459500	398200	330100	263300	261900	293700	313200	453200	466500	463800	428100
4	462300	457300	395900	328100	262400	262100	294400	312200	456000	466300	463600	425800
5	462600	454900	393500	325900	261500	262300	295400	310900	457900	465700	463400	422900
6	462800	452900	391600	323800	260700	262500	296700	309500	459000	465500	463000	420500
7	462900	451200	389600	321600	260000	262800	298100	308000	458800	465900	462700	418100
8	462700	449200	387600	319300	259300	263200	300000	306800	457800	465900	462200	415700
9	462300	447100	385600	317400	258700	263800	301800	306400	456100	465700	461800	413400
10	462100	444700	383700	315100	258500	264600	303700	307000	453700	465000	461100	411100
11	461900	443500	381900	312900	258500	265500	304900	308300	451300	464100	460900	408800
12	462000	441700	379900	310700	258500	266400	305100	311200	448400	463000	460300	406400
13	462000	440000	377800	308500	258800	267400	303300	317100	445700	461700	459300	403900
14	462100	438000	375800	306300	259100	268600	301700	327700	442800	460300	459400	401300
15	462200	435900	373600	303800	259300	269700	301000	340100	441100	458800	458700	399000
16	462300	433800	371300	301200	259600	270700	302000	350000	441500	458000	458100	396500
17	462400	432300	368900	298800	259800	271800	304900	356700	443400	458400	457800	394000
18	462400	430300	366600	296300	259900	272700	307700	358500	445300	458900	457200	392000
19	462600	428400	364600	293700	259900	273600	309900	365800	447500	459200	456400	388200
20	462600	426400	362600	291300	259900	274800	311200	373900	451100	459500	455800	385800
21	462600	424100	359900	288800	260200	276500	312300	381000	454300	459600	455100	383300
22	462600	421700	357400	286600	260400	278200	314000	387300	455400	460300	454300	380600
23	462600	419500	354700	284500	260600	279800	316700	392300	455400	461700	452900	378300
24	462700	417700	352600	282600	260900	281500	318900	397200	454900	462400	450800	375700
25	462700	415700	350500	280600	261000	283100	320400	401600	455000	462800	448600	373100
26	462700	413400	348400	278700	261100	284400	320700	405300	457000	463000	446400	370700
27	462700	411000	346100	276700	261100	285800	320500	409600	460300	463100	444200	368200
28	462700	408900	344000	274500	261200	287100	319500	414100	463500	463600	441800	365600
29	462700	406600	341700	272500	261300	288300	318400	419700	466200	463800	439500	363100
30	462700	404400	339600	270200	---	289500	317000	427600	467900	463900	437100	360700
31	463100	---	337300	267900	---	290800	---	437200	---	463900	434900	---
MEAN	462400	434300	370400	301200	260500	272700	306600	354400	453200	462900	455500	397100
MAX	463100	463000	402200	334900	265700	290800	320700	437200	467900	467500	464000	432800
MIN	461000	404400	337300	267900	258500	261500	292200	306400	441100	458000	434900	360700
(†)	4195.78	4182.81	4166.18	4146.70	4144.72	4153.39	4160.74	4190.21	4196.78	4195.95	4189.71	4172.21
(‡)	+1100	-58700	-67100	-69400	-6600	+29500	+26200	+120200	+30700	-4000	-29000	-74200

CAL YR 1983....................(‡) - 55000
WTR YR 1984....................(‡) -101300

†Elevation, in feet, at end of month.
‡Change in contents, in acre-feet.

13190500 SOUTH FORK BOISE RIVER AT ANDERSON RANCH DAM, ID

LOCATION.--Lat 43°20'30", long 115°28'40", in NW1/4 sec.14, T.1 S., R.8 E., Elmore County, Hydrologic Unit 17050113, Boise National Forest, on right bank 600 ft upstream from Dixie Creek, 1.8 mi downstream from Anderson Ranch 2.2 mi northwest of Bennett, and at mile 41.5.

DRAINAGE AREA.--982 mi2.

PERIOD OF RECORD.--April 1943 to current year (includes flow of Dixie Creek prior to October 1946).

GAGE.--Water-stage recorder. Datum of gage is 3,830.0 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Anderson Ranch Reservoir 1.8 mi upstream (see sta 13190000) beginning Dec. 13, 1945. Flow of Little Camas Creek is stored in Little Camas Reservoir, capacity, 22,300 acre-ft, no spill most years, and diverted out of basin through Little Camas Canal for irrigation of about 5,000 acres, 1966 determination.

AVERAGE DISCHARGE.--41 years, 1,035 ft3/s, 749,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,850 ft3/s May 25, 1956, gage height, 10.56 ft; minimum, 0.1 ft3/s Nov. 15, 1959; minimum gage height, 0.99 ft Feb. 15, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,510 ft3/s June 12, gage height, 7.54 ft; minimum daily, 299 ft3/s Mar. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	318	679	1550	1590	1500	378	329	2900	3260	3370	801	1610
2	318	1220	1550	1580	1400	369	650	2900	3360	3080	801	1610
3	318	1510	1540	1580	879	365	859	2900	3360	2890	801	1610
4	318	1540	1560	1580	879	369	866	2920	3420	2610	801	1610
5	322	1540	1560	1580	872	369	879	2920	3640	2570	801	1620
6	325	1540	1550	1570	846	369	686	2900	4070	2140	801	1700
7	386	1540	1550	1570	789	369	536	2890	4350	1960	801	1720
8	421	1540	1550	1570	764	333	692	2880	4360	1960	821	1650
9	417	1550	1550	1560	751	299	592	2880	4360	2010	795	1650
10	417	1540	1550	1530	587	303	892	2880	4360	2010	795	1600
11	417	1540	1550	1530	481	303	892	2890	4330	2010	801	1530
12	412	1540	1540	1530	481	303	1610	2890	4290	2010	801	1590
13	412	1540	1540	1550	430	314	2350	2900	4270	2010	801	1630
14	412	1550	1540	1560	394	310	2330	2920	4290	2010	808	1650
15	412	1540	1540	1560	369	306	2320	2940	3810	2010	828	1660
16	412	1540	1540	1560	369	306	2660	2950	3300	2010	861	1650
17	412	1540	1550	1540	382	310	2820	2960	3260	1600	801	1670
18	412	1540	1550	1540	382	310	2880	2970	3260	900	808	1690
19	412	1550	1550	1540	382	310	2860	2980	3280	900	814	1690
20	412	1550	1440	1540	382	318	2900	2940	3280	800	814	1680
21	412	1550	1590	1540	382	310	2900	3000	3290	800	808	1690
22	412	1550	1590	1540	394	314	2900	3020	3680	800	801	1700
23	412	1550	1590	1540	369	318	2900	3040	3660	800	1210	1700
24	412	1550	1590	1510	378	315	2900	3050	3880	801	1560	1710
25	412	1550	1590	1470	373	318	2920	3040	3870	808	1560	1720
26	412	1550	1590	1470	382	318	2920	3050	3330	827	1590	1720
27	412	1550	1590	1470	386	318	2920	3050	2340	795	1580	1730
28	412	1550	1450	1480	382	318	2920	3020	2400	795	1560	1730
29	408	1550	1590	1490	382	329	2920	2990	2310	795	1580	1730
30	399	1550	1590	1490	---	329	2920	3010	2500	801	1600	1730
31	399	---	1590	1500	---	329	---	3010	---	801	1620	---
TOTAL	12187	45129	48230	47460	16752	10132	60773	91620	107700	49383	31571	50110
MEAN	393	1504	1556	1531	578	327	2026	2955	3590	1593	1018	1670
MAX	421	1550	1590	1590	1500	378	2920	3050	4360	3370	1620	1730
MIN	318	679	1440	1360	369	299	329	2880	2310	795	795	1530
AC-FT	24170	89510	95660	94140	33230	20100	120500	181700	213600	97950	62620	99390

CAL YR 1983	TOTAL	659829	MEAN	1808	MAX	7610	MIN	318	AC-FT	1309000
WTR YR 1984	TOTAL	571067	MEAN	1560	MAX	4360	MIN	299	AC-FT	1133000

BEST COPY AVAILABLE

13194000 ARROWROCK RESERVOIR AT ARROWROCK DAM, ID

LOCATION.--Lat 43°35'40", long 115°55'19", in E1/2 sec.13, T.3 N., R.4 E., Elmore County, Hydrologic Unit 17050112, Boise National Forest, at Arrowrock Dam on Boise River, 14 mi east of Boise, and at mile 75.4.

DRAINAGE AREA.--2,210 mi2, approximately.

PERIOD OF RECORD.--October 1917 to current year. Published as "at Arrowrock" October 1917 to September 1962.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Reservoir is formed by gravity-section concrete-arch dam completed in 1915 and raised 5 ft in 1937; storage began in 1915. Controlled capacity, 286,600 acre-ft between elevations 2,940 ft and 3,216 ft at highest position of movable crest of spillway and 9.5 ft above sluice gate sill. Silt deposition at dam has raised the lower storage level and decreased the capacity of the reservoir. Prior to Oct. 1, 1952, contents in publications of the Geological Survey applied from original capacity table and no silt corrections were made. Beginning Oct. 1, 1952, contents applied from revised table, which is the original table reduced by amounts varying from 347 acre-ft at elevation 2,974 ft to 5,000 acre-ft at elevation 3,085 ft and above. Water is used for irrigation in Boise Valley.

COOPERATION.--Gage readings and contents table furnished by U.S Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 301,200 acre-ft May 29, 1948, elevation, 3,219.1 ft; no usable contents during period in each of several years when sluice gates were open and natural flow was passing through reservoir. Minimum since completion of Lucky Peak Dam (Oct. 1954) 20 acre-ft Oct. 9, 1969, elevation 2,975 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 288,800 acre-ft June 30, elevation, 3,216.71 ft; minimum, 41,100 acre-ft Oct. 12, elevation, 3,092.60 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

3080.0	30000	3150.0	126000
3100.0	49000	3180.0	189500
3120.0	75000	3200.0	240000
		3217.0	289700

CONTENTS (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
0800 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43700	81600	234900	192900	68300	72300	134200	192800	245100	288700	213000	64400
2	44000	85500	239600	187700	68500	72400	135600	188900	247200	287900	208400	62200
3	44100	90200	244200	182700	68900	72600	137400	185500	247900	287300	204000	58100
4	44100	94900	248800	177100	69800	72800	139500	182200	247800	286900	199400	59400
5	44000	99700	253500	171100	70600	73000	142000	178700	247800	286400	194900	64000
6	44000	104800	258400	165400	71300	73300	144900	175200	248700	286600	190100	68700
7	43900	111300	263200	157900	71900	73700	147600	171500	249800	286700	185400	73700
8	44000	116600	268300	149600	72500	74400	151200	168200	250300	286400	180100	78500
9	43600	121700	273000	141300	72900	75300	154600	166000	250000	285800	174600	83400
10	43000	126900	277300	133400	73400	76800	157500	165200	249000	285000	169200	88000
11	42100	132700	280500	126100	73200	78600	159900	164800	247700	285200	164000	92300
12	41100	138800	281900	119200	73200	80400	162600	166400	246400	285400	159000	97000
13	42200	144600	281000	112900	73600	81900	164800	171500	245100	285300	153900	101500
14	44400	149800	278600	107200	74400	84000	163900	180600	244000	283700	149900	105900
15	46600	154900	275100	101900	74800	86500	163200	192900	248800	281300	143700	110300
16	48700	159900	271500	96600	75100	88900	165700	200800	257300	278600	138300	114800
17	50700	165700	268600	91800	75100	90900	172400	204900	266700	275000	133200	119200
18	53000	171200	265700	87300	75000	92800	179900	206700	275800	271100	127000	123700
19	55000	176500	261600	83500	74800	94400	185900	208600	280900	267200	121100	128100
20	57000	181600	256400	80200	74400	96100	189300	212100	284900	263200	115300	132900
21	59000	186400	251200	77500	74400	99900	191600	216100	285200	259100	110000	137600
22	60900	191400	246100	75500	74300	103100	193700	218700	284800	255000	103900	142000
23	62900	196200	241200	73800	74100	107700	196500	221200	284000	251900	98100	146300
24	65000	201400	236800	72400	73800	113100	199300	223400	284000	248200	93800	150800
25	67100	206500	232300	71200	73600	118200	201000	224100	284500	244300	89700	155300
26	69100	211300	226600	70200	73300	122800	202000	224300	284700	240100	85200	159600
27	71000	216100	220600	69300	72900	126900	202000	225000	283300	235800	80700	163900
28	72900	220900	214600	68500	72600	130800	201400	226000	285700	231400	76600	168200
29	75000	225500	208900	67900	72400	132400	200500	228200	286500	227100	72400	172500
30	77100	230000	203500	67700	---	133000	197300	233600	288800	222400	67500	176800
31	79200	---	198200	67800	---	133600	---	240600	---	217700	65000	---
MAX	79200	230000	281900	192900	75100	133600	202000	240600	288800	288700	213000	176800
MIN	41100	81600	198200	67700	68300	72300	134200	164800	244000	217700	65000	58100
(†)	3122.84	3196.29	3183.62	3114.82	3118.20	3153.79	3183.24	3200.21	3216.71	3191.44	3112.76	3174.45
(‡)	+35900	+150800	-31800	-130400	+4600	+61200	+63700	+43300	+48200	-71100	-152700	+111800

CAL YR 1983...... ‡ +78200
WTR YR 1984...... ‡ +133500

(†) Gage height, in feet, at end of month.
(‡) Change in contents, in acre-feet.

13200000 MORES CREEK ABOVE ROBIE CREEK, NEAR ARROWROCK DAM, ID

LOCATION.--Lat 43°38'53", long 115°59'20", in SE1/4 SW1/4 sec.28, T.4 N., R.4 E., Boise County, Hydrologic Unit 17050112, on left bank at State roadside park, 1.7 mi upstream from Robie Creek, 5.0 mi northwest of Arrowrock Dam, and at mile 5.8.

DRAINAGE AREA.--399 mi2.

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1958, published as "Moore Creek above Robie Creek, near Arrowrock," and October 1958 to September 1962, published as "near Arrowrock."

GAGE.--Water-stage recorder. Altitude of gage is 3,120 ft, from topographic map.

REMARKS.--Records good. Small diversions above station for irrigation.

AVERAGE DISCHARGE.--34 years, 308 ft3/s, 10.48 in./yr, 223,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,440 ft3/s Dec. 23, 1955, gage height, 9.55 ft; minimum, 7.4 ft3/s Aug. 18, 19, 1977, gage height, 1.71 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Mar. 21	1745	1,190	5.30	*Apr. 18	1500	*2,560	*7.15
Apr. 9	0230	1,510	5.83	May 15	0845	2,080	6.55

Minimum discharge, 57 ft3/s Aug. 30, gage height, 2.35 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 22-28, Jan. 18 to Feb. 10, Feb. 20-22)

2.3	50	4.0	535
2.6	95	5.0	1040
2.9	157	6.0	1670
3.4	305	7.0	2440

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	92	131	165	150	195	743	808	1090	439	125	97
2	97	125	145	155	155	223	860	908	984	402	119	83
3	92	123	140	150	150	241	930	990	896	375	113	77
4	87	111	131	150	150	241	979	990	880	355	119	72
5	82	109	95	160	145	251	1080	957	925	330	115	68
6	80	115	115	162	152	269	1250	897	992	313	107	74
7	79	170	155	157	151	282	1200	844	967	300	102	87
8	77	147	189	150	150	326	1340	850	932	282	95	85
9	87	125	178	147	150	369	1410	957	833	263	92	82
10	93	119	235	142	150	460	1290	1050	768	248	88	77
11	87	221	276	138	150	522	1160	1120	724	232	85	72
12	83	232	326	127	152	566	1080	1360	692	218	82	71
13	83	209	256	140	206	561	1010	1590	667	203	80	69
14	93	181	254	129	354	680	983	1870	652	192	79	63
15	92	160	232	113	319	788	1250	1990	641	184	77	65
16	87	157	192	95	302	803	1730	1620	685	170	82	64
17	85	232	187	79	266	829	2260	1340	702	162	80	62
18	83	244	189	80	229	728	2390	1200	693	157	75	59
19	82	201	173	86	209	675	2300	1180	636	155	72	58
20	82	189	142	94	182	748	1920	1270	724	147	69	62
21	80	157	125	105	187	1130	1680	1260	731	145	68	93
22	80	129	117	125	190	1060	1620	1160	672	138	68	85
23	83	145	100	150	192	990	1660	1170	615	159	83	77
24	87	152	90	180	198	974	1600	1130	588	165	79	75
25	85	170	100	185	198	919	1400	1040	572	147	72	75
26	83	138	115	170	173	834	1200	1010	566	131	68	77
27	82	150	130	160	165	753	1050	1010	555	168	65	75
28	82	147	120	150	173	713	941	996	535	152	64	74
29	82	125	129	145	192	661	860	1030	509	201	61	74
30	85	109	147	145	---	661	824	1150	480	152	59	74
31	87	---	173	148	---	713	---	1200	---	131	92	---
TOTAL	2662	4684	5120	4282	5540	19165	40002	35947	21956	6846	2635	2232
MEAN	85.9	156	165	138	191	618	1333	1160	732	221	85.0	74.4
MAX	115	244	326	185	354	1130	2390	1990	1090	439	125	97
MIN	77	92	90	79	145	195	743	808	480	131	59	58
CFSM	.22	.39	.41	.35	.48	1.55	3.34	2.91	1.83	.55	.21	.19
IN.	.25	.44	.48	.40	.52	1.79	3.73	3.35	2.05	.64	.25	.21
AC-FT	5280	9290	10160	8490	10990	38010	79340	71300	43550	13580	5230	4430

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CAL YR 1983    TOTAL   199159    MEAN    546    MAX    3060    MIN    60    CFSM  1.37    IN.   15.57    AC-FT  395000
WTR YR 1984    TOTAL   151071    MEAN    413    MAX    2390    MIN    58    CFSM  1.04    IN.   14.08    AC-FT  299600
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13201500 LUCKY PEAK LAKE NEAR BOISE, ID

LOCATION.--Lat 43°31'31", long 116°03'15", in SW1/4 NW1/4 sec.12, T.2 N., R.3 E., Ada County, Hydrologic Unit 17050112, at outlet control tower at Lucky Peak Dam on Boise River, 2 mi upstream from diversion dam for New York Canal, 7 mi downstream from Mores Creek, 9 mi southeast of Boise, and at mile 63.3.

DRAINAGE AREA.--2,680 mi2, approximately.

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to May 13, 1955, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by earth-fill dam. Storage began Oct. 16, 1954. Dam completed in February 1955. Capacity, 307,040 acre-ft between elevations 2,827.0 ft, sill of outlet gates, and 3,060.0 ft, spillway crest. Minimum proposed operating level, 2,905.0 ft, 28,770 acre-ft, but all storage can be released. Water is stored for flood control and irrigation of lands in Boise Valley.

COOPERATION.--Gage-height record and capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 305,130 acre-ft June 25, 1955, elevation, 3,059.32 ft; minimum since near-full capacity was attained on June 25, 1955, 28,630 acre-ft Dec. 21, 1961, elevation, 2,904.83 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 297,700 acre-ft June 29, elevation, 3,056.65 ft; minimum, 60,400 acre-ft Oct. 18, elevation, 2,936.55 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

2,930.0	52,700	3,000.0	162,800
2,940.0	64,600	3,020.0	205,600
2,960.0	92,400	3,040.0	253,600
2,980.0	125,100	3,060.0	307,000

CONTENTS (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155700	92000	94200	196200	203500	192000	204400	233600	192600	297100	294400	293600
2	151500	91900	94300	199300	200800	191600	203700	232300	191500	---	294300	293400
3	146300	91900	94300	202400	199300	191300	204900	231700	190200	296200	294200	293200
4	142600	91800	94400	206400	198100	191000	207700	231000	188900	---	294000	287700
5	136900	91800	94300	210300	197000	190600	210800	229900	188400	292200	293700	280100
6	132200	91800	94300	214300	195900	---	214200	228500	190100	291700	293500	270600
7	127400	91900	94400	217700	195000	190300	217700	226500	192500	293000	293200	261900
8	122800	92100	94600	221100	194000	190300	221700	224000	196400	294200	293500	253000
9	118900	92100	94500	224100	193900	190500	225800	221300	201400	294800	294000	244100
10	115500	92000	94800	226600	193900	191000	229500	218600	206300	295000	294200	235300
11	112600	92300	96300	228600	194100	191800	233100	216100	212000	293900	294400	226400
12	110000	92600	100100	230200	194300	192900	236500	214000	219700	292600	294500	217400
13	105400	92700	105700	231300	194800	194000	240100	212600	229200	291800	294400	208300
14	101100	92800	112600	231900	195000	195500	241000	212000	239400	292400	294200	200000
15	98500	92900	120300	231900	195900	197400	241100	212200	243500	293700	293800	191100
16	95800	92900	127400	231500	196400	199500	242200	212000	244000	294400	293600	182200
17	93100	93200	132600	230600	196700	201900	244800	211200	244400	294200	294000	173400
18	92200	93400	135700	229000	196500	203900	247500	210100	244800	294200	294300	164600
19	92200	93600	140100	227200	196200	206000	248900	209000	247500	294100	294200	155800
20	92100	93800	145000	224800	195900	208200	249100	208100	253900	294000	293400	146900
21	92100	93800	149800	222100	195800	211500	249100	207100	262600	293900	294000	---
22	91900	93800	153800	219200	195500	214700	249000	205800	269900	293800	294400	---
23	92100	93800	157400	217300	195200	215900	248500	204500	275800	293700	293800	---
24	92400	94000	161100	216800	194800	215800	249100	203300	281400	293600	293900	112400
25	92600	94100	165100	216000	194400	215600	249900	202000	287200	293400	293400	103700
26	92400	94200	170400	215000	194000	215300	247300	200500	292800	293300	294200	94900
27	92500	94200	175500	213800	193500	213400	244200	199100	295400	293600	293700	86200
28	92300	94200	180400	212300	192900	209700	240600	197800	296500	293800	293300	77800
29	92100	94300	185300	210700	192500	207600	237100	196300	297700	294100	293000	69000
30	92000	94200	189400	208500	---	206500	234900	194800	296600	294300	293500	60400
31	91900	---	192900	206100	---	205400	---	193700	---	294300	293600	---
MEAN	108300	93000	130400	213500	195700	---	233800	212900	239100	---	293900	---
MAX	155700	94300	192900	231900	203500	215900	249900	233600	297700	297100	294500	293600
MIN	91900	91800	94200	196200	192500	190300	203700	193700	188400	291700	293000	60400
(†)	2959.72	2961.22	3014.32	3023.27	3014.14	3019.91	3032.49	3014.70	3056.27	3055.43	3055.15	2936.55
(‡)	-68500	+2300	+98700	+13200	-13600	+12900	+29500	-41200	+102900	-2300	-700	-233200

CAL YR 1983........ (‡) -166700
WTR YR 1984........ (‡) -100000

(†) Elevation, in feet, at end of month.
(‡) Change in contents, in acre-feet.

13202000 BOISE RIVER NEAR BOISE, ID

LOCATION.--Lat 43°31'40", long 116°03'31", in NE1/4 sec.11, T.2 N., R.3 E., Ada County, Hydrologic Unit 17050112, at gate-control house at outlet works of Lucky Peak Lake, 1.8 mi upstream from diversion dam for New York Canal, 7.5 mi downstream from mouth of Mores Creek, 9 mi southeast of Boise, and at mile 63.6.

DRAINAGE AREA.--2,680 mi2, approximately. Mean altitude, 5,910 ft.

PERIOD OF RECORD.--January 1895 to September 1916 (no winter records 1904-5, 1907), November 1950 to September 1954 (discharge measurements only), October 1954 to current year. Published as "near Highland" 1905-15 and as "below Moore Creek, near Arrowrock" 1916.

REVISED RECORDS.--WSP 1347: 1895-1901, 1904.

GAGE.--Remote gate-opening recorder and nonrecording gage on each of six slide gates, remote recorder and nonrecording gage on hollow-jet valve, and remote water-stage recorder on Lucky Peak Lake. Elevation of sills of six slide gates, 2,827.0 ft, levels by Corps of Engineers. Prior to Mar. 18, 1905, nonrecording gages at sites about 1 mi downstream at different datums. Mar. 18, 1905, to Mar. 20, 1915, nonrecording gages, and Mar. 21, 1915, to Sept. 30, 1916, water-stage recorders at sites 5 to 7 mi upstream at different datums.

REMARKS.--Records good. Daily discharge computed from relations between discharge, head, and gate openings adjusted on the basis of current-meter measurements. Unadjusted discharges furnished by Corps of Engineers. Flow regulated by Lucky Peak Lake (see sta 13201500), Arrowrock Reservoir (see sta 13194000), and Anderson Ranch Reservoir (see sta 13190000). Diversions above station for irrigation of about 2,300 acres in the basin and about 5,000 acres outside the basin near Mountain Home (1966 determination).

COOPERATION.--Records of gate operation, discharge, stage in Lucky Peak Lake, and gate rating curves furnished by Corps of Engineers.

AVERAGE DISCHARGE.--30 years (since construction of Lucky Peak Dam, 1955-84), 2,999 ft3/s, 2,165,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 35,500 ft3/s June 14, 1896; no flow on several days in 1954, 1955, 1957-59, 1961, 1969, 1974, 1978, 1980, 1982, 1984, when gates were closed; maximum discharge since construction of Lucky Peak Dam in 1955, 13,200 ft3/s June 13-15, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 10,500 ft3/s May 30 to June 4; no flow Oct. 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3500	150	150	3500	3600	1850	3500	9400	10500	8000	4370	2600
2	3500	150	150	3500	3600	1850	3500	9400	10500	8010	4350	3600
3	3500	150	150	3500	2670	1850	2510	9070	10500	8000	4350	4330
4	3500	150	150	3500	2000	1850	1800	9100	10500	8000	4350	4400
5	3500	150	135	3500	2000	1850	1800	9100	10000	8000	4350	4400
6	3500	150	150	3810	2000	1850	1800	9100	9000	6120	4350	4400
7	3500	150	150	4750	2000	1850	1800	9200	8500	5000	4350	4570
8	3500	150	150	5000	2000	1850	1800	9420	7750	5000	4350	4500
9	3500	150	399	5000	1670	1850	1800	9570	7000	5000	4350	4500
10	3500	150	800	5000	1500	1850	1800	9670	7000	5000	4370	4600
11	3170	150	800	5000	1500	1850	1800	9700	6540	5000	4300	4600
12	3000	150	833	5000	1500	1850	1800	9700	5330	5000	4300	4600
13	3000	150	900	5000	1500	1850	2340	9700	4330	4780	4300	4600
14	2350	150	900	5000	1500	1850	5760	9700	4000	4600	4300	4600
15	1500	150	900	5000	1500	1850	6300	9700	4130	4600	4300	4600
16	1500	150	900	5000	1500	1850	6800	9770	4330	4600	4300	4600
17	1500	150	1570	5000	1680	1850	6600	9860	4400	4600	4300	4600
18	600	150	2500	5000	1850	1850	7200	9970	4470	4600	4370	4500
19	150	150	2500	5000	1850	1850	7730	10000	5170	4600	4400	4500
20	150	150	2500	5000	1850	1850	7900	10000	5500	4570	4400	4500
21	150	150	2500	5000	1850	1850	7900	10200	5670	4550	4400	4500
22	150	150	2630	5000	1850	1850	7900	10200	6250	4550	4400	4600
23	53	150	3000	4350	1850	1850	8230	10200	6500	4520	4400	4600
24	.00	150	3000	3600	1850	1850	7500	10200	6500	4500	4400	4600
25	.00	150	3000	3600	1850	1850	7420	10200	6500	4450	4400	4600
26	158	150	3000	3600	1850	1850	8320	10200	7000	4450	4400	4600
27	75	150	3000	3600	1850	2680	9050	10200	7250	4450	4400	4500
28	150	150	3000	3600	1850	3500	9100	10200	7740	4450	4400	4500
29	150	106	3000	3600	1850	3500	9100	10400	9000	4450	4400	4600
30	150	150	3330	3600	---	3500	9300	10500	9000	4420	4400	4500
31	150	---	3500	3600	---	3500	---	10500	---	4400	3540	---
TOTAL	53136.00	4456	49837	134220	55920	64780	161360	304130	208860	162270	134300	134060
MEAN	1714	149	1608	4330	1928	2090	5395	9811	6962	5235	4332	4469
MAX	3500	150	3500	5000	3600	3500	9300	10500	10500	8010	4400	4600
MIN	.00	106	135	3530	1500	1850	1800	9070	4000	4400	3540	2600
AC-FT	105400	8840	98850	266200	110900	128500	321000	603200	414300	321900	266400	265900

CAL YR 1983 TOTAL $1698399. MEAN 4653 MAX 13200 MIN .00 AC-FT 3369000
WTR YR 1984 TOTAL $1467829. MEAN 4010 MAX 10500 MIN .00 AC-FT 2911000

13205633 CRANE CREEK AT 1206 RANCH ROAD AT BOISE, ID

LOCATION.--Lat 43°38'48", long 116°12'01", in NW1/4 NW1/4 NE1/4 sec.34, T.4 N., R.2 E., Ada County, Hydrologic Unit 17050114, at private driveway crossing at 1206 Ranch Road, Highlands subdivision, 1.8 mi northwest of Federal Building and 2.1 mi upstream from mouth.

DRAINAGE AREA.--7.2 mi2.

PERIOD OF RECORD.--October 1979 to May 1982, 1983 (operated as crest-stage gage), October to December 1983 (discharge measurements only) January to September 1984.

GAGE.--Nonrecording gage, staff and crest-stage gage. Datum of gage 2,790 ft, from topographic map.

REMARKS.--Records fair except those above 10 ft3/s, which are poor. Ponds upstream may affect extremes.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55 ft; 3/s Feb. 16, 1982, gage height, 4.80 ft; minimum daily, 0.15 ft3/s July 1-5, 8-10, 12, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft3/s Feb. 13, gage height, 3.55 ft; minimum observed, 0.32 ft3/s Sept. 15-18, gage height, 1.50 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

1.56	0.32	2.0	3.6
1.6	.44	2.5	9.5
1.7	1.0	3.0	16
1.8	1.8	4.0	33

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---		---	---	5.2	4.7	7.7	5.6	3.1	1.1	.60	.78
2	---		---	---	5.2	4.8	7.6	5.4	2.8	1.0	.60	.69
3	---		---	---	4.8	5.1	7.1	9.2	2.4	1.0	.66	.60
4	---		---	---	4.8	5.1	7.3	6.2	2.8	1.1	.66	1.3
5	---		---	---	4.2	5.0	7.6	6.0	2.8	.78	.66	1.9
6	---		---	---	3.2	5.2	8.0	5.6	4.5	.90	.41	2.5
7	---		---	---	4.0	5.1	8.1	5.4	3.7	.90	.66	.90
8	---		---	---	4.9	5.4	13	5.6	3.3	.84	.41	.84
9	---		---	---	5.8	5.6	6.6	5.6	3.1	.60	.66	.35
10	---		---	---	6.6	7.6	9.0	5.8	3.0	.60	.41	.35
11	---		---	---	7.5	8.6	11	7.1	3.0	.90	.41	.35
12	---		---	---	8.4	9.5	11	5.9	2.3	.72	.41	.35
13	.45		---	---	9.2	9.9	11	5.7	2.0	.38	.41	.35
14	---		---	---	10	11	10	7.3	2.5	.72	.41	.35
15	---		---	---	8.3	11	11	7.7	2.5	.60	.41	.32
16	---		---	2.1	8.8	13	12	6.5	2.5	.60	.41	.32
17	---		---	1.9	9.3	18	13	5.6	2.2	.60	.41	.32
18	---		---	1.7	6.0	14	13	5.9	2.1	.60	.41	.32
19	---		---	1.7	5.1	14	14	5.2	2.0	.60	.41	.44
20	---		2.4	1.6	4.4	13	15	5.1	2.1	.60	.41	1.9
21	---		---	1.7	6.2	17	9.5	4.9	2.0	.60	.41	.60
22	---		---	1.7	5.4	16	9.7	4.5	1.9	.60	8.6	.60
23	---		---	1.9	5.1	15	9.9	4.5	1.6	.60	.97	.60
24	---		---	5.3	5.0	15	10	4.1	1.5	.60	.97	.41
25	---		---	11	5.6	13	8.7	4.2	1.6	.38	.70	.55
26	---		---	11	4.1	13	8.8	3.9	1.6	.38	.41	.66
27	---		---	11	4.2	11	7.0	3.2	1.6	.38	.41	.41
28	---		---	8.7	4.4	9.3	6.4	3.4	1.3	12	.50	.41
29	---		---	6.7	4.5	9.1	5.7	3.4	1.1	.60	.60	.41
30	---		---	5.1	---	8.2	5.3	3.4	1.2	.60	.73	.66
31	---		---	5.2	---	7.8	---	3.1	---	.60	.88	---
TOTAL	---		---	---	170.2	310.0	284.0	165.0	70.1	32.48	25.01	20.54
MEAN	---		---	---	5.87	10.0	9.47	5.32	2.36	1.05	.81	.68
MAX	---		---	---	10	18	15	9.2	4.5	12	8.6	2.5
MIN	---		---	---	3.2	4.7	5.3	3.1	1.1	.38	.41	.32
AC-FT	---		---	---	338	615	563	327	139	64	50	41

13205995 DIVERSIONS FROM BOISE RIVER BETWEEN NEAR BOISE AND AT GLENWOOD BRIDGE GAGING STATIONS, ID

Between near Boise and at Glenwood Bridge gaging stations (published as "between between Dowling Ranch and at Boise gaging stations" prior to 1955 water year and as "between near Boise and at Boise gaging stations" 1955-82), ten canals and several small farm laterals divert water from Boise River for irrigation.

Records of total diversion during April to September for each canal for years 1919-46, combined daily diversion covering period April to September for years 1947-67, combined daily diversions for water years 1968-75 and daily flow of New York Canal February 1939 to October 1949 are published in reports of Geological Survey. Records of daily diversion for each canal from 1916-54 are on file in office of the Idaho Department of Water Resources. Prior to October 1967, there was no record of October to March diversions except for New York Canal. Miscellaneous diversions or pumping from Boise River above "at Glenwood Bridge" was reported by watermaster to be approximately as follows in acre-ft: October, 364; April, 579; May, 712; June, 982; July, 928; August, 1,039; and September, 851.

Records show summation of discharge for the recorded diversions. Staff gages on canals are read daily or several times weekly and discharge measurements are made weekly. Records furnished by watermaster for Boise River.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2640	.00	.00	.00	.00	.00	400	2640	3490	3700	3710	2770
2	2630	.00	.00	.00	.00	.00	400	2660	3490	3700	3710	1510
3	2600	.00	.00	.00	.00	.00	633	2680	3500	3710	3740	2390
4	2600	.00	.00	.00	.00	.00	796	2500	3470	3730	3720	3130
5	2580	.00	.00	.00	.00	.00	812	2510	3450	3750	3730	3220
6	2580	.00	.00	.00	.00	.00	812	2510	3450	3730	3730	3270
7	2580	.00	.00	.00	.00	.00	815	2490	3410	3570	3730	3240
8	1960	.00	.00	.00	.00	.00	815	2510	3260	3590	3730	3230
9	1960	.00	.00	.00	.00	.00	815	2730	3120	3540	3700	3200
10	1930	.00	.00	.00	.00	.00	812	2840	3120	3700	3690	3200
11	1930	.00	.00	.00	.00	.00	812	2930	2940	3740	3580	3190
12	1910	.00	.00	.00	.00	.00	849	2890	2950	3740	3590	3140
13	1920	.00	.00	.00	.00	.00	949	2920	2960	3750	3640	3090
14	1920	.00	.00	.00	.00	.00	996	2980	2830	3750	3630	3040
15	600	.00	.00	.00	.00	.00	1030	2980	2970	3750	3650	2990
16	.00	.00	.00	.00	.00	.00	1110	2990	3110	3780	3670	2980
17	.00	.00	.00	.00	.00	.00	1240	2980	3240	3760	3680	2920
18	.00	.00	.00	.00	.00	.00	1350	3020	3240	3770	3690	2910
19	.00	.00	.00	.00	.00	.00	1470	3210	3350	3790	3710	2920
20	.00	.00	.00	.00	.00	.00	1540	3240	3470	3790	3710	2920
21	.00	.00	.00	.00	.00	.00	1650	3250	3490	3770	3700	2920
22	.00	.00	.00	.00	.00	.00	1650	3350	3450	3770	3580	2850
23	.00	.00	.00	.00	.00	.00	1710	3360	3290	3750	3440	2750
24	.00	.00	.00	.00	.00	.00	1800	3360	3290	3750	3690	2650
25	.00	.00	.00	.00	.00	.00	1860	3370	3300	3730	3690	2640
26	.00	.00	.00	.00	.00	.00	2080	3370	3400	3720	3690	2570
27	.00	.00	.00	.00	.00	.00	2170	3370	3540	3710	3630	2490
28	.00	.00	.00	.00	.00	.00	2230	3370	3600	3720	3690	2480
29	.00	.00	.00	.00	.00	.00	2290	3380	3660	3710	3680	2450
30	.00	.00	.00	.00	---	.00	2340	3490	3670	3730	3670	2440
31	.00	---	.00	.00	---	.00	---	3550	---	3750	3650	---
TOTAL	32340.00	.00	.00	.00	.00	.00	38234	93490	99420	115470	114550	85470
MEAN	1043	.00	.00	.00	.00	.00	1274	3016	3314	3725	3695	2849
MAX	2640	.00	.00	.00	.00	.00	2340	3550	3670	3790	3740	3270
MIN	.00	.00	.00	.00	.00	.00	400	2490	2830	3570	3650	1510
AC-FT	64150	.00	.00	.00	.00	.00	75840	185400	197200	229000	227200	169500

CAL YR 1983 TOTAL 551290.00 MEAN 1510 MAX 3800 MIN .00 AC-FT 1093000
WTR YR 1984 TOTAL 578984.00 MEAN 1582 MAX 3790 MIN .00 AC-FT 1148000

13206000 BOISE RIVER AT GLENWOOD BRIDGE NEAR BOISE, ID

LOCATION.--Lat 43°39'37", long 116°16'41", in SW1/4 NE1/4 NE1/4 sec.25, T.4 N., R.1 E., Ada County, Hydrologic Unit 17050114, on left bank 175 ft upstream from Glenwood Bridge, and 4.4 mi northwest of Boise.

DRAINAGE AREA.--2,800 mi2, approximately.

PERIOD OF RECORD.--April 1938 to September 1940 (published as "at Strawberry Glen Bridge near Boise"), March 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,600.00 ft National Geodetic Vertical Datum of 1929. April 1938 to September 1940, 0.30 mi downstream at different datum.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 13,000 ft3/s May 2, 1938; minimum observed, 19 ft3/s Dec. 3, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 20, 1943, reached a discharge of about 21,000 ft3/s.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge, 6,950 ft3/s May 29, June 4, gage height 10.37 ft, maximum gage height, 10.44 ft May 30; minimum, 42 ft3/s Oct. 26, gage height 5.28 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Jan. 8 to Apr. 12, May 5-15)

Oct. 1 to May 15				May 15 to Sept. 30			
5.5	100	7.2	1090	6.1	610	8.0	2610
5.7	168	8.0	2000	6.5	915	9.0	4200
6.0	293	9.0	3600	7.0	1390	10.4	7020
6.6	606	10.5	6900				

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	219	215	3640	3770	1950	3160	6680	6870	4380	909	1310
2	1140	236	211	3660	3730	1960	3060	6730	6890	4390	876	1340
3	1150	223	203	3630	3730	1950	2170	6650	6890	4390	880	1470
4	1100	219	207	3680	2200	1950	1100	6530	6900	4440	897	1510
5	1100	203	203	3650	2100	1950	1080	6600	6530	4480	894	1450
6	1050	211	211	3830	2090	1950	1090	6600	5730	3240	892	1430
7	1400	215	262	4710	2130	1950	1060	6650	5280	1670	890	1570
8	1630	199	280	5120	2130	1950	1130	6750	4890	1600	875	1680
9	1690	199	400	5160	1900	1950	1100	6780	4120	1580	932	1690
10	1650	199	600	5140	1600	1980	1080	6780	4180	1470	869	1690
11	1350	215	1000	5120	1550	2000	1090	6830	3970	1450	847	1710
12	1230	203	1020	5120	1600	2020	1090	6800	2800	1490	846	1760
13	1250	211	1020	5120	1690	2020	1520	6780	1930	1220	841	1820
14	1300	207	1060	5120	1650	2040	4120	6780	1430	1060	841	1890
15	1480	207	1060	5120	1640	2090	5450	6780	1370	1080	843	1930
16	1500	211	1020	5100	1610	2040	5360	6850	1410	1070	856	1960
17	1510	244	1700	5070	1710	2130	5230	6840	1440	1070	857	1960
18	1070	207	2600	5070	1960	2060	5320	6820	1450	1080	857	1950
19	284	228	2600	5070	1960	2060	5800	6770	1910	1090	931	1980
20	240	219	2600	5070	1950	2060	5920	6750	2400	1070	935	2020
21	232	211	2550	5050	1980	2060	5920	6780	2430	1060	947	2030
22	223	203	2780	5070	1950	2090	5920	6590	3010	1060	982	2130
23	244	207	2990	4770	1960	2060	6010	6890	3470	1030	993	2190
24	232	244	3040	3900	1950	2060	5920	6870	3470	1010	984	2230
25	219	236	3090	3850	1980	2000	4920	6870	3390	991	984	2260
26	116	215	3110	3850	1980	2000	6400	6870	3760	965	984	2340
27	215	207	3110	3810	1960	2550	6650	6820	3770	959	993	2390
28	228	219	3070	3810	1960	3590	6730	6820	4120	1020	993	2390
29	219	203	3090	3800	1950	3570	6600	6840	4410	996	1000	2380
30	219	199	3330	3790	---	3390	6650	6890	4390	965	1030	2330
31	223	---	3600	3770	---	3160	---	6890	---	940	1140	---
TOTAL	26634	6419	52232	138750	60400	68590	118660	210180	114610	54336	28578	56790
MEAN	859	214	1685	4476	2083	2213	3955	6780	3820	1753	922	1893
MAX	1690	244	3600	5160	3770	3590	6730	6890	6900	4490	1140	2390
MIN	116	199	203	3640	1550	1950	1060	6530	1370	940	841	1310
AC-FT	52830	12730	103600	275200	119800	136000	235400	416900	227300	107800	56680	112600

CAL YR 1983 TOTAL 1152855 MEAN 3159 MAX 9560 MIN 116 AC-FT 2287000
WTR YR 1984 TOTAL 936179 MEAN 2558 MAX 6900 MIN 116 AC-FT 1857000

13210050 BOISE RIVER NEAR MIDDLETON, ID

LOCATION.--Lat 43°41'06", long 116°34'22", in SE1/4 SE1/4 SE1/4 NE1/4 sec.16, T.4 N., R.2 W., Canyon County Hydrologic Unit 17050114, on right bank 2.9 mi southeast of Middleton and at mile 29.1.

DRAINAGE AREA.--3,050 mi2, approximately.

PERIOD OF RECORD.--December 1974 to current year (low-flow periods only).

GAGE.--Water-stage recorder. Datum of gage is 2,410 ft, from topographic map.

REMARKS.--Records fair. Natural flow of stream affected by regulation of Lucky Peak Lake (see sta 13201500) and other upstream storage reservoirs, diversions above station for irrigation of about 296,000 acres, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Minimum discharge, 38 ft3/s Sept. 4, 1977, gage height, 3.66 ft.

EXTREMES FOR CURRENT YEAR.--Minimum discharge, 182 ft3/s Aug. 13, gage height, 5.77 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	296	304				---		---	---	289	528
2	---	304	289				---		---	---	254	580
3	---	296	285				---		---	---	257	981
4	---	311	285				---		---	---	282	1110
5	---	300	282				1370		---	---	260	1070
6	---	296	289				1350		---	---	250	1040
7	---	323	359				1330		---	1130	254	1150
8	---	296	446				1360		---	921	250	1320
9	---	289	419				1360		---	906	237	1350
10	---	289	1070				1280		---	822	237	1350
11	---	308	1270				1160		---	791	209	1380
12	---	296	---				1120		---	754	209	---
13	---	308	---				1180		---	600	206	---
14	---	296	---				---		1190	327	195	---
15	---	293	---				---		1040	319	195	---
16	---	293	---				---		953	327	195	---
17	---	335	---				---		953	319	195	---
18	---	319	---				---		960	315	206	---
19	590	315	---				---		1120	331	240	---
20	451	327	---				---		---	359	267	---
21	410	308	---				---		---	363	275	---
22	384	296	---				---		---	367	267	---
23	367	299	---				---		---	406	347	---
24	393	315	---				---		---	365	339	---
25	351	363	---				---		---	331	359	---
26	275	311	---				---		---	293	388	---
27	257	296	---				---		---	289	406	---
28	311	304	---				---		---	275	419	---
29	304	300	---				---		---	347	441	---
30	293	285	---				---		---	327	513	---
31	300	---	---				---		---	289	678	---
TOTAL	---	9157	---				---		---	---	9119	---
MEAN	---	305	---				---		---	---	294	---
MAX	---	363	---				---		---	---	678	---
MIN	---	285	---				---		---	---	195	---
AC-FT	---	18160	---				---		---	---	18090	---

13211309 INDIAN CREEK ABOVE WASTE WATER PLANT NEAR NAMPA, ID

LOCATION.--Lat 43°35'50", long 116°34'42", NW1/4 NE1/4 SW1/4 sec. 16, T.3 N., R.2 W., Canyon County, Hydrologic Unit 17050114, on left bank at Nampa Waste Water Plant.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--October 1981 to current year.

GAGE.--Non-recording gage, staff and crest-stage gage. Altitude of gage is 2,430 ft, from topographic map.

REMARKS.--Records fair. Twice daily readings by employees of Nampa Waste Water Plant.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 132 ft3/s July 5, 1982, gage height, 2.30 ft; maximum gage height, 2.72 ft July 2, 1983; minimum observed, 29 ft3/s Oct. 4, 1983, gage height, 1.20 ft, minimum gage height observed, 1.00 ft Feb. 3-7, 9, 12, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 115 ft3/s June 8, gage height, 2.44 ft; minimum observed, 29 ft3/s Oct. 4, gage height, 1.20 ft; minimum gage height observed, 1.03 ft Feb. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	53	50	39	32	34	36	58	84	60	77	79
2	74	53	49	39	32	34	35	59	85	56	77	74
3	73	52	49	39	31	34	36	69	80	54	75	84
4	52	54	49	36	31	35	36	69	87	59	75	77
5	85	53	48	36	31	34	36	78	99	62	74	63
6	87	53	46	37	32	34	35	82	104	62	67	75
7	87	54	48	36	31	33	35	71	107	61	58	59
8	86	51	50	37	31	34	34	61	114	72	56	56
9	80	51	51	35	32	33	35	57	102	81	54	72
10	75	51	52	35	34	34	35	56	103	72	59	70
11	77	52	53	37	32	34	34	58	98	62	60	66
12	76	51	54	36	32	35	67	66	82	53	58	63
13	73	52	52	36	38	34	76	---	74	59	61	63
14	69	51	52	36	45	34	84	---	60	74	54	62
15	58	51	52	36	39	34	85	---	58	76	59	63
16	53	50	49	37	39	34	58	---	56	85	60	54
17	50	56	48	35	39	36	68	---	67	80	62	59
18	44	50	48	34	39	34	92	---	66	88	68	66
19	48	51	48	33	36	34	59	---	73	92	71	58
20	50	50	46	32	36	34	64	---	88	82	74	56
21	47	51	47	32	35	35	62	---	88	83	74	78
22	54	49	43	32	36	34	61	---	87	85	72	78
23	55	50	43	32	35	35	66	---	84	91	77	75
24	54	56	40	32	36	34	55	83	83	88	80	73
25	54	51	40	32	36	34	58	---	77	84	80	65
26	45	49	40	31	36	35	58	---	69	71	77	62
27	54	46	40	32	34	35	62	84	65	76	77	62
28	54	49	41	32	35	37	59	80	64	78	79	62
29	54	48	41	32	34	37	61	74	62	91	73	62
30	54	47	40	32	---	36	52	60	59	97	66	60
31	53	---	39	32	---	36	---	75	---	80	78	---
TOTAL	1948	1535	1448	1072	1009	1070	1634	---	2426	2316	2132	1996
MEAN	62.8	51.2	46.7	34.6	34.8	34.5	54.5	---	80.9	74.7	68.8	66.5
MAX	87	56	54	39	45	37	92	---	114	97	80	84
MIN	44	46	39	31	31	33	34	---	56	53	54	54
AC-FT	3860	3040	2870	2130	2000	2120	3240	---	4810	4590	4230	3960

CAL YR 1983 TOTAL 20461 MEAN 56.1 MAX 123 MIN 30 AC-FT 40580

Note.--No gage-height record May 13-23, 25, 26.

13212996 DIVERSIONS FROM BOISE RIVER BETWEEN AT GLENWOOD BRIDGE AND NEAR PARMA GAGING STATIONS, ID

Between at Glenwood Bridge and near Parma gaging stations (published as "between at Boise and Notus gaging stations" prior to 1974 and "between at Boise and near Parma gaging stations", 1974-82), 23 canals and several small farm laterals divert water from Boise River for irrigation.

Records of daily diversions for each canal for 1916-84 are on file in office of the Idaho Department of Water Resources. Prior to October 1967, no record available of diversions that are usually made during October and March. Miscellaneous diversions or pumping from Boise River below "at Glenwood Bridge" was reported by watermaster to be approximately as follows in acre-ft: October, 364; April, 579; May, 712; June, 893; July, 927; August, 1,010; September, 851.

Records show summation of discharge for the recorded diversions. Staff gages on diversions are read daily or several times weekly and discharge measurements are made weekly. Records furnished by watermaster for Boise River.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1110	.00	.00	.00	.00	.00	.00	1290	1720	1990	1730	1600
2	1080	.00	.00	.00	.00	.00	.00	1360	1720	1970	1710	1550
3	1010	.00	.00	.00	.00	.00	.00	1360	1700	1960	1690	1500
4	1030	.00	.00	.00	.00	.00	130	1320	1700	1970	1670	1480
5	1060	.00	.00	.00	.00	.00	130	1360	1700	1970	1710	1460
6	1050	.00	.00	.00	.00	.00	130	1360	1690	1990	1700	1410
7	1040	.00	.00	.00	.00	.00	130	1350	1600	1890	1700	1380
8	1050	.00	.00	.00	.00	.00	130	1420	1540	1910	1710	1390
9	1040	.00	.00	.00	.00	.00	130	1480	1490	1900	1700	1390
10	1030	.00	.00	.00	.00	.00	130	1510	1460	1840	1700	1370
11	1010	.00	.00	.00	.00	.00	130	1550	1640	1670	1710	1320
12	940	.00	.00	.00	.00	.00	356	1550	1480	1710	1710	1300
13	717	.00	.00	.00	.00	.00	387	1550	1360	1820	1710	1300
14	699	.00	.00	.00	.00	.00	404	1550	1440	1760	1760	1270
15	699	.00	.00	.00	.00	.00	470	1580	1490	1790	1750	1250
16	.00	.00	.00	.00	.00	.00	584	1510	1590	1800	1770	1210
17	.00	.00	.00	.00	.00	.00	590	1490	1640	1770	1790	1220
18	.00	.00	.00	.00	.00	.00	628	1470	1640	1780	1790	1230
19	.00	.00	.00	.00	.00	.00	741	1480	1590	1890	1780	1250
20	.00	.00	.00	.00	.00	.00	873	1480	1760	1690	1790	1250
21	.00	.00	.00	.00	.00	.00	879	1480	1650	1550	1770	1240
22	.00	.00	.00	.00	.00	.00	887	1500	1670	1860	1790	1230
23	.00	.00	.00	.00	.00	.00	931	1550	1660	1810	1800	1220
24	.00	.00	.00	.00	.00	.00	1000	1610	1670	1780	1770	1190
25	.00	.00	.00	.00	.00	.00	960	1620	1720	1800	1760	1140
26	.00	.00	.00	.00	.00	.00	1010	1660	1800	1760	1740	1140
27	.00	.00	.00	.00	.00	.00	1060	1640	1840	1780	1720	1120
28	.00	.00	.00	.00	.00	.00	1100	1660	1590	1780	1690	1110
29	.00	.00	.00	.00	.00	.00	1140	1650	1960	1510	1680	1110
30	.00	.00	.00	.00	---	.00	1200	1670	2000	1800	1670	1090
31	.00	---	.00	.00	---	.00	---	1730	---	1750	1650	---
TOTAL	14565.00	.00	.00	.00	.00	.00	16240.00	46790	49630	57100	53630	38720
MEAN	470	.00	.00	.00	.00	.00	541	1509	1654	1842	1730	1291
MAX	1110	.00	.00	.00	.00	.00	1200	1730	2000	1990	1800	1600
MIN	.00	.00	.00	.00	.00	.00	.00	1290	1360	1670	1670	1090
AC-FT	28890	.00	.00	.00	.00	.00	32210	92810	98440	113300	106400	76800

CAL YR 1983 TOTAL 272706.00 MEAN 747 MAX 1950 MIN .00 AC-FT 540900
WTR YR 1984 TOTAL 276675.00 MEAN 756 MAX 2000 MIN .00 AC-FT 548600

13213000 BOISE RIVER NEAR PARMA, ID

LOCATION.--Lat 43°46'54", long 116°58'17", in NE1/4 SE1/4 SE1/4 sec.7, T.5 N., R.5 W., Canyon County, Hydrologic Unit 17050114, on left bank at county road crossing, 1.2 mi west of Parma, and at mile 3.8.

DRAINAGE AREA.--3,970 mi2, approximately.

PERIOD OF RECORD.--March 1938 to June 1939 (gage heights only), September 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,196.49 ft National Geodetic Vertical Datum of 1929. March 1938 to June 1939, nonrecording gage 1.4 mi upstream at different datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--13 years, 2,002 ft3/s, 1,450,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,240 ft3/s June 14, 1983, gage height, 13.53 ft; minimum, 93 ft3/s Apr. 29, 1977, gage height, 6.16 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 20, 1943, reached a discharge of about 20,000 ft3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,280 ft3/s June 5, gage height, 13.05 ft; minimum, 754 ft3/s July 17, gage height, 7.96 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

8.0	780	11.0	3880
9.0	1570	12.0	5390
10.0	2610	13.1	7320

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1960	1050	953	4300	4490	2930	3830	6620	6730	4180	1160	1820
2	1940	1070	975	4310	4430	2980	3790	6820	6800	4260	1100	1910
3	1970	1050	965	4340	4630	2950	3570	6970	6620	4200	1060	2030
4	1910	1070	983	4330	3420	2930	2390	6870	6910	4210	1100	2210
5	1920	1050	946	4330	3070	2900	1990	6730	7190	4240	1100	2140
6	1960	1020	946	4340	3030	2890	1970	6520	7020	4210	1120	2130
7	1960	1030	990	4640	2990	2890	1930	6500	6480	2770	1000	2270
8	2210	1010	1130	5380	2990	2890	1940	6730	6090	1690	961	2390
9	2290	983	1200	5610	2980	2920	2260	6640	5490	1700	968	2440
10	2380	990	1430	5590	2630	2940	2020	6550	4980	1590	961	2490
11	2370	1010	2020	5570	2500	2970	1900	6640	5060	1500	903	2350
12	2140	1000	2240	5590	2500	3020	1830	6780	4550	1440	854	2410
13	2170	1000	2230	5640	2700	2980	1850	6660	3500	1330	869	2440
14	2280	990	2270	5620	3360	3030	3090	6680	2490	1140	807	2540
15	2410	968	2460	5610	3080	3120	5140	6770	2020	1030	787	2540
16	2540	975	2270	5610	2970	3200	5870	7000	1840	1000	813	2530
17	2450	1000	2150	5570	2930	3230	5760	6990	1840	910	834	2530
18	2440	1030	2550	5570	3070	3230	5660	7000	1860	903	834	2610
19	1680	975	3500	5870	3080	3120	5810	6590	1680	952	868	2540
20	1180	1010	3500	5740	3040	3070	6130	6780	2500	1000	1000	2510
21	1100	990	3460	5740	3040	3030	6300	6750	3030	1060	1000	2360
22	1090	961	3440	5610	3000	3080	6300	6770	3170	1100	975	2690
23	1140	953	3720	5590	2990	3020	6220	6730	3770	1270	1100	2950
24	1140	990	3830	5030	2980	2970	6230	6750	3720	1260	1220	3080
25	1100	1080	3900	4570	2980	2930	5690	6730	3690	1210	1230	3060
26	1090	1020	3930	4640	2980	2940	5610	6750	3410	1140	1330	3060
27	1010	975	3930	4400	2940	2880	6440	6730	3660	1080	1380	3090
28	1040	968	3870	4370	2930	3760	6550	6770	3650	1110	1310	3120
29	1050	975	3880	4510	2930	4210	6520	6680	4020	1240	1250	3170
30	1060	961	3930	4520	---	4130	6440	6660	4110	1290	1300	3130
31	1070	---	4230	4490	---	3880	---	6660	---	1180	1560	---
TOTAL	53870	30184	77861	157480	90460	97020	131030	209610	128060	57211	32753	77620
MEAN	1738	1006	2512	5080	3119	3130	4368	6762	4269	1846	1057	2587
MAX	2540	1080	4230	5870	4490	4210	6550	7000	7190	4260	1560	3170
MIN	1010	953	946	4300	2500	2880	1830	6550	1680	903	787	1820
AC-FT	106900	59870	154400	312400	179400	192400	259900	415800	254000	113500	64970	154000

CAL YR 1983 TOTAL 1412945 MEAN 3871 MAX 9140 MIN 946 AC-FT 2803000
WTR YR 1984 TOTAL 1143159 MEAN 3123 MAX 7190 MIN 787 AC-FT 2267000

SNAKE RIVER MAIN STEM

13213100 SNAKE RIVER AT NYSSA, OR

LOCATION.--Lat 43°52'36", long 116°59'02", in NW1/4 SW1/4 NW1/4 sec.33, T.19 S., R.47 E., Malheur County, Hydrologic Unit 17050115, on left bank 300 ft upstream from U.S. Highway 20-26 bridge at Nyssa, 2.3 mi downstream from Boise River, and at mile 385.2.

DRAINAGE AREA.--58,700 mi2, approximately.

PERIOD OF RECORD.--November 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,170 ft, from topographic map.

REMARKS.--Records fair. Flow regulated by many reservoirs above station.

AVERAGE DISCHARGE.--9 years, 15,700 ft3/s, ~~11,370,000~~ acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,900 ft3/s Apr. 19, 1984, gage height, 13.34 ft; minimum, 4,330 ft3/s July 1, 1977, gage height, 4.00 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 57,900 ft3/s Apr. 19, gage height, 13.34 ft; minimum, 7,550 ft3/s Aug. 24, gage height 4.81 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

4.8	7510	9.0	29700
5.0	8450	11.0	42200
7.0	18400	14.0	62500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13200	25000	22100	29800	29800	17400	35100	46000	43900	25000	14500	11800
2	13100	23600	20200	29700	29400	18500	35200	45500	41300	23300	15000	11500
3	13500	21300	20800	30000	29100	18400	35300	46000	41800	22500	15800	12100
4	14800	19400	20600	29800	27700	17800	35200	47000	41800	22100	16300	12300
5	15600	19400	21000	29800	26400	18800	34500	46400	40800	21900	15500	12500
6	14700	19500	19400	31100	25000	18900	34800	47500	40600	21200	15100	12300
7	15000	18800	20900	30500	24000	18800	35000	47800	42500	21500	14800	13200
8	16000	19200	20400	31100	23600	17900	35800	46200	43700	21200	13400	13200
9	16600	19600	21900	31600	23800	17800	36900	45700	43500	19900	11100	13300
10	16600	20200	23900	31300	21700	19700	36700	44300	43900	18500	10700	13400
11	16500	21200	27000	31600	19500	20400	37000	44500	46600	18700	10100	12900
12	16800	21100	26000	31500	18200	21700	36700	44800	46700	17400	9410	12300
13	19200	21200	25200	31500	18000	23000	38900	43200	45500	13100	9460	12500
14	19400	21000	26500	31200	20700	23000	41000	44300	44200	12600	8980	13300
15	19500	21300	24900	31400	19200	21700	43200	45600	43900	12400	9740	13300
16	17400	21200	23500	31200	19900	25100	45000	47000	43900	11100	9630	14100
17	18900	22000	23800	30000	20500	27000	50800	50600	43300	10200	9500	15200
18	19800	23200	23600	30000	21600	26900	55300	53700	42600	9900	9390	13900
19	19400	23500	25000	30000	21400	27700	57200	55500	41500	9400	10300	13600
20	20000	23600	26600	29300	19300	27400	57400	55600	43900	8500	11300	13800
21	20400	23700	26800	28600	17600	27800	55700	55500	43400	9300	11200	13200
22	20200	23300	25600	28300	16400	28300	53000	55300	42800	8700	10700	14300
23	22000	22800	26400	29500	16900	30600	50400	55100	43300	10000	10200	13600
24	22200	24400	22000	28600	18000	27800	49600	55000	41700	11200	7930	14300
25	22000	23400	23200	30000	17200	29000	49300	54400	39900	12300	10300	15400
26	24200	22000	25900	30700	17100	28700	49100	52700	38200	11700	10900	16900
27	24300	22300	26600	31200	17400	28400	50000	52200	36200	11700	12000	14400
28	25800	22200	27400	30300	17300	27500	50000	49900	32100	11600	12000	15000
29	24800	23000	28600	29800	17200	28300	48000	50000	24700	11500	11300	16200
30	24400	23000	28900	29900	---	33500	47000	47700	24700	11800	11500	15200
31	25000	---	28900	29800	---	35200	---	45500	---	13300	12000	---
TOTAL	591300	655200	753800	939100	613900	753000	1319000	1521600	1232900	463500	360510	409500
MEAN	19070	21840	24320	30290	21170	24290	43970	49060	41100	14950	11630	13650
MAX	25800	25000	28900	31600	29800	35200	57400	55600	46700	25000	16300	16900
MIN	13100	18800	19400	28300	16400	17400	34500	43200	24700	8500	7930	11800
AC-FT	1173000	1300000	1495000	1863000	1218000	1494000	2616000	3017000	2445000	919400	715100	812200

CAL YR 1983	TOTAL	8650600	MEAN	23700	MAX	49400	MIN	7700	AC-FT17158000
WTR YR 1984	TOTAL	9612710	MEAN	26260	MAX	57400	MIN	7930	AC-FT19067000

Note.--No gage-height record Oct. 1 to Dec. 14, Feb. 12-13, Feb. 21 to Mar. 10, Apr. 27 to May 4, July 7 to Aug. 6.

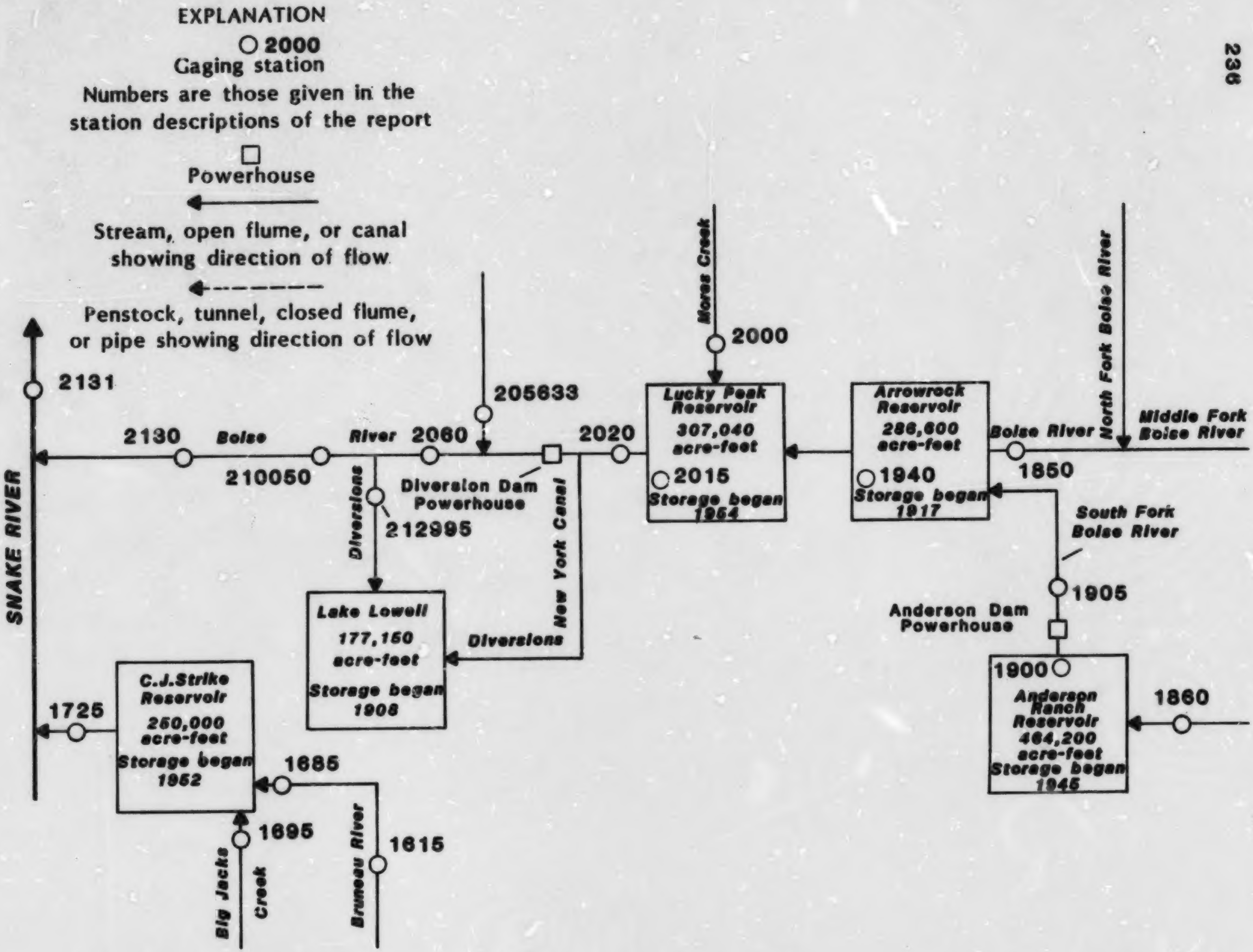
EXPLANATION
○ 2000
Gaging station
Numbers are those given in the station descriptions of the report
□
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow
SNAKE RIVER
2131
2130
Boise
River
210050
2060
205633
Diversions
212995
Diversion Dam Powerhouse
New York Canal
Diversions
Lake Lowell
177,150 acre-feet
Storage began 1908
2020
Moores Creek
2000
Lucky Peak Reservoir
307,040 acre-feet
2015
Storage began 1954
Arrowrock Reservoir
286,600 acre-feet
1940
Storage began 1917
Boise River
1850
North Fork Boise River
Middle Fork Boise River
South Fork Boise River
1905
Anderson Dam Powerhouse
1900
Anderson Ranch Reservoir
464,200 acre-feet
Storage began 1945
1860
1725
C.J.Strike Reservoir
250,000 acre-feet
Storage began 1952
1685
1695
Big Jacks Creek
Bruneau River
1615

Figure 19. -- Gaging stations in Bruneau and Boise River basins.

13235000 SOUTH FORK PAYETTE RIVER AT LOWMAN, ID

LOCATION.--Lat 44°05'07", long 115°37'16", in SE1/4 NW1/4 SW1/4 sec.27, T.9 N., R.7 E., Boise County, Hydrologic Unit 17050120, Boise National Forest, on right bank 1,200 ft upstream from Rock Creek, 0.5 mi northwest of Lowman, 4,100 ft downstream from Clear Creek, and at mile 106.

DRAINAGE AREA.--456 mi2. Mean altitude, 6,780 ft.

PERIOD OF RECORD.--May 1941 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,790 ft, from river-profile map. Prior to Dec. 13, 1941, nonrecording gage at site 900 ft upstream at different datum.

REMARKS.--Records good. No regulation. Return flow from several small irrigation diversions enters river above station.

AVERAGE DISCHARGE.--43 years, 895 ft3/s, 26.65 in./yr, 648,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,980 ft3/s June 16, 1974, gage height, 5.36 ft, from floodmark; minimum, 135 ft3/s Sept. 10, 1966, Jan. 1-2, 1978; minimum gage height, 2.22 ft Sept. 10, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,000 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
May 15	0400	4330	6.17	June 21	0615	4670	6.34
May 31	1000	*5400	*6.68				

Minimum discharge, 248 ft3/s Jan. 15, gage height, 2.94 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

3.0	279	4.5	1620
3.5	608	5.5	3090
4.0	1060	6.6	5200

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	533	455	493	526	390	371	570	891	4490	3370	1040	615
2	483	526	493	511	384	390	600	967	3830	3040	997	585
3	476	526	476	555	390	378	608	967	3370	2990	967	555
4	455	511	455	526	390	371	656	919	3130	2890	919	540
5	442	562	396	452	416	371	722	891	3090	2710	841	525
6	429	570	462	442	442	384	765	836	3040	2680	854	648
7	422	957	493	435	422	396	747	800	2930	2710	827	605
8	409	767	483	422	390	435	809	854	2790	2560	791	593
9	476	648	462	416	390	469	827	1080	2570	2300	773	574
10	518	632	483	416	390	548	809	1210	2370	2030	756	555
11	476	900	493	416	371	540	756	1290	2320	1890	747	533
12	455	818	483	409	371	518	730	1720	2320	1930	739	526
13	449	767	469	396	449	511	688	2440	2320	1790	739	511
14	469	688	462	378	476	608	697	3330	2400	1680	713	504
15	449	648	449	290	422	593	882	4150	2670	1580	713	497
16	435	632	396	318	416	585	1390	3550	3300	1520	782	497
17	429	656	378	335	403	570	1910	2760	3750	1480	713	483
18	422	640	384	290	371	533	1970	2400	3770	1430	658	469
19	409	600	429	312	347	518	1710	2600	3770	1380	672	469
20	409	600	371	353	384	562	1550	3080	4150	1360	648	515
21	403	540	330	403	416	773	1320	3200	4510	1300	640	593
22	396	490	307	455	384	722	1350	2930	3860	1260	624	518
23	435	533	301	497	371	672	1560	3030	3460	1500	656	504
24	429	548	367	469	371	680	1460	3030	3530	1400	616	497
25	409	562	483	469	378	648	1360	2710	3880	1250	608	490
26	396	511	593	439	359	632	1190	2670	4210	1240	600	483
27	396	504	585	378	353	600	1090	2750	4330	1310	535	469
28	390	497	526	359	365	577	1030	2840	4250	1360	562	462
29	409	462	533	353	365	562	977	3390	4270	1250	555	455
30	422	396	548	353	---	548	910	4490	4170	1130	548	469
31	429	---	585	353	---	562	---	5180	---	1060	664	---
TOTAL	13559	18106	14108	12706	11376	16627	31643	72975	102840	57250	22627	15730
MEAN	437	604	455	410	392	536	1055	2354	3428	1848	730	524
MAX	533	957	593	555	476	773	1970	5180	4510	3370	1040	648
MIN	390	396	301	290	347	371	570	800	2320	1060	548	449
CFSM	.96	1.32	.00	.90	.86	1.18	2.31	5.16	7.52	4.05	1.60	1.15
IN.	1.11	1.48	1.15	1.04	.93	1.36	2.58	5.95	8.39	4.67	1.85	1.28
AC-FT	26890	35910	27980	25200	22560	32980	62760	144700	204000	113600	44880	31200

CAL YR 1983 TOTAL 432180 MEAN 1184 MAX 6570 MIN 265 CFSM 2.60 IN. 35.26 AC-FT 857200
WTR YR 1984 TOTAL 389577 MEAN 1064 MAX 5180 MIN 290 CFSM 2.33 IN. 31.78 AC-FT 772700

13236000 DEADWOOD RESERVOIR NEAR LOWMAN, ID

LOCATION.--Lat 44°17'38", long 115°38'41", in SW1/4 SE1/4 sec.8, T.11 N., R.7 E., Valley County, Hydrologic Unit 17050120, Boise National Forest, at dam on Deadwood River, 15 mi north of Lowman, and at mile 18.0.

DRAINAGE AREA.--112 mi2.

PERIOD OF RECORD.--October 1935 to current year.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by U.S. Bureau of Reclamation). National Geodetic Vertical Datum of 1929 is 22.8 ft higher. Prior to July 1, 1964, nonrecording gage.

REMARKS.--Reservoir was formed by concrete-arch dam completed in 1930; storage began Nov. 2, 1930. Reported capacity, 160,400 acre-ft between elevations 5,230.0 ft, minimum operating level for fish protection, 27 ft above sill of emergency gate in front of needle valve, and 5,334.0 ft crest of spillway. Storage below elevation 5,230 ft, about 1,500 acre-ft. Water is used to augment flow of Payette River at Black Canyon powerplant near Emmett and, since 1956, as supplemental irrigation supply for Emmett Irrigation District and other users. Small diversion from a tributary of Johnson Creek in Salmon River basin to Deadwood River basin for supplemental storage in Deadwood Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 5,337.43 ft June 25, 1974; minimum observed, about 5,205 ft Sept. 18 to Oct. 11, 1951, Aug. 30 to Sept. 30, 1973, Oct. 1-4, 1974, when reservoir was drained for repairs.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 5,333.12 ft June 12; minimum, 5,299.36 ft Oct. 1.

ELEVATION (FEET NGVD) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5299.48	5302.39	5306.75	5309.85	5312.15	5314.26	5316.55	5321.66	5333.10	5323.91	5313.02	5312.27
2	5299.60	5302.56	5306.85	5309.91	5312.22	5314.33	5316.60	5321.88	5333.09	5323.24	5312.94	5312.25
3	5299.69	5302.70	5306.96	5310.06	5312.28	5314.38	5316.68	5322.08	5332.98	5322.52	5312.87	5312.23
4	5299.73	5302.84	5307.02	5310.13	5312.35	5314.43	5316.75	5322.30	5332.86	5321.78	5312.83	5312.19
5	5299.90	5302.96	5307.09	5310.21	5312.41	5314.55	5316.94	5322.48	5332.82	5320.98	5312.78	5311.97
6	5299.96	5303.15	5307.26	5310.26	5312.48	5314.56	5317.02	5322.65	5332.74	5320.17	5312.75	5311.63
7	5300.05	5303.34	5307.44	5310.36	5312.53	5314.61	5317.12	5322.82	5332.64	5319.32	5312.74	5311.11
8	5300.14	5303.48	5307.49	5310.46	5312.60	5314.69	5317.29	5323.05	5332.44	5318.41	5312.72	5310.59
9	5300.28	5303.60	5307.66	5310.51	5312.69	5314.75	5317.37	5323.39	5332.21	5317.48	5312.69	5310.00
10	5300.37	5303.82	5307.81	5310.56	5312.74	5314.85	5317.51	5323.73	5331.83	5316.52	5312.66	5309.39
11	5300.47	5304.14	5307.96	5310.66	5312.81	5314.92	5317.59	5324.10	5331.49	5315.65	5312.64	5308.75
12	5300.56	5304.35	5308.08	5310.71	5312.91	5314.97	5317.73	5324.57	5331.13	5315.02	5312.60	5308.14
13	5300.67	5304.51	5308.17	5310.80	5313.09	5315.12	5317.78	5325.20	5330.66	5314.46	5312.56	5307.50
14	5300.76	5304.63	5308.29	5310.86	5313.14	5315.20	5317.91	5325.97	5330.15	5314.08	5312.54	5306.89
15	5300.84	5304.79	5308.36	5310.91	5313.25	5315.30	5318.02	5326.83	5329.66	5313.77	5312.54	5306.27
16	5300.92	5304.95	5308.44	5311.00	5313.32	5315.33	5318.20	5327.50	5329.34	5313.65	5312.55	5305.63
17	5301.02	5305.11	5308.52	5311.05	5313.37	5315.45	5318.45	5328.11	5329.03	5313.52	5312.55	5305.34
18	5301.09	5305.27	5308.61	5311.11	5313.41	5315.52	5318.73	5328.71	5328.74	5313.36	5312.53	5305.46
19	5301.17	5305.41	5308.69	5311.16	5313.47	5315.60	5318.98	5329.36	5328.43	5313.22	5312.49	5305.56
20	5301.26	5305.56	5308.75	5311.26	5313.56	5315.69	5319.19	5330.08	5328.24	5313.08	5312.46	5305.64
21	5301.34	5305.65	5308.82	5311.30	5313.66	5315.79	5319.40	5330.81	5328.10	5312.91	5312.41	5305.74
22	5301.43	5305.70	5308.89	5311.43	5313.72	5315.86	5319.66	5331.53	5327.79	5312.77	5312.39	5305.81
23	5301.55	5305.85	5308.96	5311.53	5313.81	5315.94	5319.93	5332.06	5327.39	5312.71	5312.38	5305.87
24	5301.62	5306.05	5309.08	5311.65	5313.89	5316.04	5320.22	5332.01	5327.00	5312.72	5312.35	5305.93
25	5301.70	5306.15	5309.20	5311.70	5313.96	5316.13	5320.44	5331.93	5326.66	5312.72	5312.33	5306.01
26	5301.79	5306.25	5309.28	5311.72	5314.00	5316.20	5320.66	5331.93	5326.32	5312.82	5312.29	5306.08
27	5301.87	5306.36	5309.35	5311.86	5314.06	5316.26	5320.84	5331.98	5325.95	5312.94	5312.24	5306.16
28	5301.94	5306.46	5309.41	5311.91	5314.13	5316.34	5321.04	5332.06	5325.56	5313.00	5312.21	5306.22
29	5302.03	5306.52	5309.57	5311.96	5314.21	5316.41	5321.22	5332.25	5325.06	5313.07	5312.18	5306.31
30	5302.12	5306.61	5309.71	5312.03	---	5316.48	5321.41	5332.63	5324.53	5313.12	5312.24	5306.39
31	5302.25	---	5309.79	5312.10	---	5316.53	---	5332.97	---	5313.10	5312.28	---
MEAN	5300.89	5304.70	5308.33	5311.00	5313.18	5315.37	5318.57	5327.37	5329.60	5315.68	5312.54	5307.98
MAX	5302.25	5306.61	5309.79	5312.10	5314.21	5316.53	5321.41	5332.97	5333.10	5323.91	5313.02	5312.27
MIN	5299.48	5302.39	5306.75	5309.85	5312.15	5314.26	5316.55	5321.66	5324.53	5312.71	5312.18	5305.34

WTR YR 1984 MEAN 5313.76 MAX 5333.10 MIN 5299.48

13236500 DEADWOOD RIVER BELOW DEADWOOD RESERVOIR, NEAR LOWMAN, ID

LOCATION.--Lat 44°17'30", long 115°38'33", in SE1/4 NE1/4 sec.17, T.11 N., R.7 E., Valley County, Hydrologic Unit 17050120, Boise National Forest, on right bank 300 ft upstream from Wilson Creek, 0.2 mi downstream from Deadwood Dam, 15 mi north of Lowman, and at mile 23.4.
DRAINAGE AREA.--112 mi2. Mean altitude, 6,630 ft.
PERIOD OF RECORD.--October 1926 to current year. Monthly discharge only prior to May 1927, published in WSP 1317. Published as "at Beaver Creek ranger station, near Lowman" prior to October 1934.
REVISED RECORDS.--WSP 1123: 1943. WSP 1317: 1936. WSP 1567: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 5,180.52 ft mean sea level (levels by U.S. Bureau of Reclamation). National Geodetic Vertical Datum of 1929 is 29.19 ft higher. Prior to June 22, 1935, at site 400 ft upstream at datum 5.85 ft higher and Oct. 1, 1935, to Aug. 3, 1955, at present site at datum 1.00 ft higher. June 22 to Sept. 30, 1935, nonrecording gage at site 20 ft upstream at datum 2.00 ft higher.
REMARKS.--Records fair except those below 5.0 ft3/s, which are poor. Flow regulated by Deadwood Reservoir (see sta 13236000).
AVERAGE DISCHARGE.--58 years, 237 ft3/s, 171,700 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,580 ft3/s July 14, 1953, maximum gage height, 9.39 ft June 1, 1953; no flow or small amount of leakage from reservoir for long periods in 1934-37, when gates in dam were closed.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,770 ft3/s June 15, gage height, 8.25 ft; minimum, 0.43 ft3/s Sept. 13, 19, gage height, 0.50 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.0	1.0	1.1	1.2	1.3	1.2	1.3	1430	1720	239	164
2	1.1	1.0	1.0	1.1	1.2	1.3	1.2	1.6	1430	1710	291	164
3	1.1	1.0	1.0	1.1	1.2	1.2	1.2	1.6	1430	1710	255	169
4	1.1	1.0	1.0	1.1	1.2	1.2	1.2	1.6	1430	1700	240	171
5	1.1	1.0	1.0	1.1	1.2	1.2	1.2	1.5	1430	1690	240	411
6	1.1	1.0	1.0	1.1	1.2	1.2	1.2	1.4	1420	1690	234	624
7	1.1	1.0	1.1	1.1	1.2	1.2	1.2	1.4	1420	1690	183	739
8	1.2	1.0	1.1	1.1	1.2	1.2	1.2	1.5	1420	1680	204	856
9	1.1	1.0	1.1	1.1	1.2	1.2	1.2	1.5	1420	1670	193	900
10	1.1	1.0	1.1	1.1	1.2	1.2	1.1	1.6	1410	1670	178	896
11	1.1	1.0	1.1	1.1	1.2	1.5	1.1	1.6	1410	1510	180	893
12	1.2	1.0	1.1	1.1	1.2	1.7	1.1	1.6	1400	1160	191	839
13	1.2	1.0	1.1	1.1	1.2	1.9	1.1	1.7	1560	1050	181	885
14	1.2	1.0	1.1	1.1	1.2	1.9	1.1	1.7	1730	800	171	892
15	1.2	1.0	1.1	1.1	1.2	1.8	1.2	1.7	1720	667	169	579
16	1.2	1.0	1.1	1.1	1.2	1.6	1.5	1.8	1720	463	158	574
17	1.2	1.0	1.1	1.1	1.2	1.3	2.3	1.8	1720	463	147	436
18	1.2	1.0	1.1	1.1	1.2	1.3	3.6	1.8	1720	463	163	.91
19	1.2	1.0	1.1	1.1	1.2	1.3	3.0	1.9	1720	463	164	.63
20	1.1	1.0	1.1	1.1	1.2	1.3	2.2	1.9	1720	463	164	1.5
21	1.1	1.0	1.1	1.1	1.2	1.3	1.9	1.9	1710	463	164	1.4
22	1.1	1.0	1.1	1.1	1.2	1.2	2.5	1.8	1720	463	147	1.6
23	1.1	1.0	1.1	1.1	1.2	1.2	3.8	354	1710	367	156	1.6
24	1.1	1.0	1.1	1.1	1.2	1.2	3.4	1120	1720	252	155	1.5
25	1.1	1.0	1.1	1.1	1.2	1.2	2.3	1110	1720	202	157	1.6
26	1.1	1.0	1.1	1.2	1.2	1.2	1.7	1120	1720	177	158	1.6
27	1.1	1.0	1.1	1.2	1.2	1.2	1.3	1120	1720	185	159	1.5
28	1.0	1.0	1.1	1.2	1.2	1.2	1.4	1120	1720	151	150	1.4
29	1.0	1.0	1.1	1.2	1.2	1.2	1.3	1120	1720	182	167	1.6
30	1.0	1.0	1.1	1.2	---	1.2	1.3	1130	1720	159	153	1.4
31	1.0	---	1.1	1.2	---	1.2	---	1310	---	239	167	---
TOTAL	34.6	30.0	33.5	34.7	34.8	41.1	51.2	9540.2	47840	27302	5700	10875.64
MEAN	1.12	1.00	1.08	1.12	1.20	1.33	1.71	308	1595	881	184	363
MAX	1.2	1.0	1.1	1.2	1.2	1.9	3.8	1310	1730	1720	291	900
MIN	1.0	1.0	1.0	1.1	1.2	1.2	1.1	1.3	1400	159	147	.63
AC-FT	69	60	66	69	69	82	102	18920	94890	54150	11310	21530

CAL YR 1983 TOTAL 122734.5 MEAN 336 MAX 2220 MIN 1.0 AC-FT 243400
WTR YR 1984 TOTAL 101520.74 MEAN 277 MAX 1730 MIN .63 AC-FT 201400

Note.--No gage-height record Jan. 6-25, May 8-22.

13238500 PAYETTE LAKE AT MCCALL, ID

LOCATION.--Lat 44°54'30", long 116°07'10", in NW1/4 sec.8, T.18 N., R.3 E., Valley County, Hydrologic Unit 17050123, at outlet of lake on North Fork Payette River at McCall and at mile 75.4.

DRAINAGE AREA.--144 mi2.

PERIOD OF RECORD.--August 1921 to current year (fragmentary prior to Nov. 23, 1943). Prior to October 1942, published as "at Lardo".

REVISED RECORDS.--WSP 753: 1931. WSP 1013: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,982.73 ft National Geodetic Vertical Datum of 1929. Prior to Aug. 26, 1931, nonrecording gage at site 25 ft downstream at datum 2.0 ft higher. Aug. 26, 1931, to Nov. 22, 1943, nonrecording gage at site 75 ft downstream at present datum.

REMARKS.--Flow from Payette Lake is regulated within natural range by tainter gates and removable stoplogs of a buttress and slab-type dam completed in November 1943. During period 1923-43 lake was regulated by structure consisting of a series of concrete-filled cribs supporting removable flashboards. Some regulation is reported to have been affected by timber flashboards for several years prior to 1923. Lake area is approximately 5,000 acres. No capacity table has been developed. Water is used for irrigation in vicinity of Emmett. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 8.75 ft July 13, 1935; minimum observed, 0.95 ft Oct. 3, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.24 ft June 21; minimum, 1.59 ft Oct. 30.

GAGE HEIGHT (FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.43	1.66	2.13	1.97	1.84	1.75	1.87	2.54	5.46	5.88	6.54	5.35
2	2.35	1.70	2.11	1.97	1.84	1.78	1.87	2.52	5.55	5.79	6.55	5.30
3	2.30	1.72	2.09	1.97	1.83	1.77	1.86	2.51	5.62	5.93	6.51	5.25
4	2.23	1.89	2.07	1.96	1.82	1.75	1.85	2.50	5.68	6.09	6.49	5.19
5	2.17	1.99	2.06	1.88	1.82	1.74	1.88	2.50	5.75	6.16	6.43	5.13
6	2.10	2.14	2.06	1.88	1.73	1.73	1.88	2.47	5.82	6.19	6.38	5.09
7	2.06	2.30	2.07	1.88	1.73	1.72	1.89	2.45	5.87	6.16	6.34	5.03
8	2.01	2.36	2.06	1.88	1.73	1.71	1.96	2.68	5.95	6.07	6.30	4.93
9	1.98	2.36	2.06	1.87	1.72	1.71	1.96	2.92	6.03	5.99	6.26	4.82
10	1.97	2.36	2.08	1.87	1.73	1.72	2.00	3.10	6.00	5.96	6.22	4.73
11	1.93	2.49	2.12	1.87	1.73	1.72	1.93	3.24	5.94	6.03	6.19	4.55
12	1.87	2.55	2.10	1.87	1.74	1.71	1.93	3.43	5.91	6.12	6.12	4.41
13	1.86	2.56	2.10	1.87	1.83	1.76	2.06	3.59	5.93	6.22	6.07	4.26
14	1.78	2.54	2.11	1.87	1.82	1.78	2.03	3.73	5.99	6.29	6.05	4.11
15	1.77	2.51	2.08	1.87	1.81	1.79	2.02	3.85	6.08	6.37	6.03	3.97
16	1.70	2.49	2.08	1.87	1.85	1.79	2.03	3.95	6.25	6.41	6.02	3.84
17	1.68	2.51	2.07	1.87	1.83	1.79	2.19	4.05	6.45	6.48	5.98	3.72
18	1.68	2.47	2.07	1.87	1.83	1.78	2.33	4.14	6.67	6.54	5.94	3.60
19	1.65	2.46	2.06	1.87	1.80	1.78	2.43	4.23	6.95	6.55	5.90	3.48
20	1.66	2.42	2.06	1.87	1.80	1.79	2.46	4.31	7.10	6.57	5.84	3.44
21	1.61	2.38	2.06	1.87	1.80	1.86	2.47	4.39	7.18	6.57	5.79	3.33
22	1.64	2.32	2.06	1.87	1.80	1.87	2.49	4.45	6.76	6.55	5.74	3.22
23	1.67	2.30	2.06	1.87	1.80	1.90	2.56	4.55	6.40	6.55	5.70	3.10
24	1.66	2.34	2.06	1.87	1.80	1.91	2.65	4.66	6.29	6.53	5.65	3.01
25	1.65	2.31	2.05	1.87	1.80	1.92	2.45	4.76	6.41	6.51	5.59	2.91
26	1.64	2.28	2.04	1.86	1.79	1.92	2.58	4.87	6.49	6.49	5.54	2.83
27	1.64	2.24	2.04	1.84	1.79	1.92	2.57	4.96	6.48	6.48	5.47	2.74
28	1.63	2.21	2.04	1.84	1.75	1.91	2.58	5.05	6.43	6.59	5.43	2.70
29	1.62	2.19	2.04	1.84	1.74	1.89	2.59	5.14	6.41	6.61	5.37	2.66
30	1.63	2.15	1.97	1.84	---	1.89	2.57	5.24	6.20	6.59	5.34	2.53
31	1.64	---	1.97	1.84	---	1.88	---	5.36	---	6.57	5.38	---
MEAN	1.84	2.27	2.07	1.88	1.79	1.80	2.20	3.81	6.20	6.32	5.97	3.97
MAX	2.43	2.56	2.13	1.97	1.85	1.92	2.65	5.36	7.18	6.61	6.55	5.35
MIN	1.61	1.66	1.97	1.84	1.72	1.71	1.85	2.45	5.46	5.79	5.34	2.53

WTR YR 1984 MEAN 3.35 MAX 7.18 MIN 1.61

Note.--No gage-height record Jan. 10 to Feb. 22, Apr.11, 12, 30, May 1.

13239000 NORTH FORK PAYETTE RIVER AT MCCALL, ID

LOCATION.--Lat 44°56'30", long 116°07'10", in SW1/4 sec.8, T.18 N., R.3 E., Valley County, Hydrologic Unit 17050123, on left bank at McCall, 0.2 mi downstream from outlet of Payette Lake, and at mile 75.2.

DRAINAGE AREA.--144 mi2. Mean altitude, 6,520 ft.

PERIOD OF RECORD.--September 1908 to June 1917, May 1919 to current year. Prior to October 1942, published as "at Lardo."

REVISED RECORDS.--WSP 963: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,967.75 ft National Geodetic Vertical Datum of 1929 (levels by Idaho Fish and Game). Nonrecording gage at site 1 mi downstream at different datum prior to Oct. 14, 1908, and Oct. 14, 1908, to Dec. 18, 1923, at sites near present gage at present datum.

REMARKS.--Records good. Flow regulated to some extent since several years prior to 1923 by gates at outlet of Payette Lake 0.2 mi upstream (see sta 13238500) and several smaller lakes upstream. Diversion for fish hatchery bypasses station and is returned below gage. Records of daily discharge of this diversion published in annual Water-Supply Papers from October 1942 to February 1953. Diversions since 1980 not comparable.

AVERAGE DISCHARGE.--73 years (1909-16, 1920-84), 370 ft3/s, 268,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,950 ft3/s June 19, 1974; maximum gage height, 8.16 ft June 19, 1974; no flow Nov. 5-8, 1931, Nov. 17-24, 1933, Nov. 14-27, 1935, Oct. 22 to Nov. 11, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,540 ft3/s June 21, gage height, 6.93 ft; minimum, 33 ft3/s Apr. 11, gage height 1.72 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

2.0	53	3.5	550
2.3	93	4.0	860
2.6	161	5.0	1620
3.0	299	7.0	3620

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	223	63	173	110	101	93	121	352	2640	2370	193	212
2	199	67	167	111	99	103	119	366	2440	1900	193	209
3	177	72	163	112	97	101	117	366	2180	1050	190	205
4	158	85	155	114	95	97	117	361	2030	1130	190	202
5	143	109	150	115	93	95	117	361	2090	1170	190	202
6	131	134	151	116	90	93	121	352	2180	1200	187	202
7	120	194	152	117	88	91	121	343	2160	1180	184	222
8	110	218	156	120	87	90	130	343	2050	1110	184	320
9	111	222	154	120	86	88	117	376	1880	839	184	316
10	108	222	161	119	85	88	82	424	1700	526	181	334
11	103	247	163	117	83	90	93	476	1540	247	181	395
12	97	275	168	115	83	90	175	556	1500	247	178	385
13	93	291	169	115	83	90	169	[illegible]	1540	251	178	375
14	89	288	172	113	84	97	169	968	1650	247	178	366
15	85	280	169	109	84	99	187	1280	1440	212	181	351
16	80	273	160	107	85	99	187	1380	786	212	178	352
17	77	282	153	105	87	101	219	1300	1230	212	190	338
18	74	291	168	103	90	101	270	1190	1750	215	226	329
19	71	278	144	101	94	99	316	1190	1950	212	226	334
20	68	270	137	101	97	99	347	1360	2420	212	222	376
21	65	252	131	99	100	107	352	1600	3320	209	222	357
22	63	232	125	99	102	117	357	1600	3290	209	222	338
23	71	220	123	[illegible]	103	117	376	1660	2900	209	219	320
24	69	[illegible]	120	113	105	126	390	1870	2660	205	219	303
25	68	228	117	117	105	126	399	1780	2670	209	219	290
26	67	219	112	119	103	128	399	1730	2810	205	219	266
27	65	208	110	117	101	130	385	1760	2820	209	215	247
28	63	199	109	113	97	130	371	1780	2770	199	215	222
29	63	190	108	111	95	128	366	1920	2740	196	212	205
30	61	178	109	107	---	126	352	2160	2640	196	212	190
31	62	---	110	105	---	124	---	2670	---	193	212	---
TOTAL	3034	6313	4439	3441	2702	3263	7041	34571	65776	[illegible]	6200	8774
MEAN	97.9	210	143	111	93.2	105	235	1115	2193	548	200	292
MAX	223	291	173	120	105	130	399	2670	3320	2370	226	395
MIN	61	63	108	99	83	88	82	343	786	193	178	190
AC-FT	6020	12520	8800	6830	5360	6470	13970	68570	130500	33680	12300	17400

CAL YR 1983 TOTAL 170744 MEAN 468 MAX 3730 MIN 56 AC-FT 338700
WTR YR 1984 TOTAL 162535 MEAN 444 MAX 3320 MIN 61 AC-FT 322400

13240000 LAKE FORK PAYETTE RIVER ABOVE JUMBO CREEK, NEAR MCCALL, ID

LOCATION.--Lat 44°54'49", long 115°59'47", in SW1/4 SE1/4 NW1/4 sec.8, T.18 N., R.4 E., Valley County, Hydrologic Unit 17040123, on left bank 100 ft upstream from abandoned powerplant, 0.2 mi upstream from Jumbo Creek, 3.5 mi upstream from Lake Fork Reservoir dam, 5.5 mi east of McCall, and at mile 21.0.

DRAINAGE AREA.--48.9 mi2. Mean altitude, 6,950 ft.

PERIOD OF RECORD.--October 1945 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,140 ft, from topographic map. Prior to Nov. 10, 1945, nonrecording gage at site 200 ft downstream at different datum.

REMARKS.--Records good except those for December to April, which are poor. No diversion above station. Flow regulated by Browns Pond, capacity 1,230 acre-ft.

AVERAGE DISCHARGE.--39 years, 149 ft3/s, 41.38 in./yr, 108,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,770 ft3/s June 26, 1971, gage height, 9.15 ft, from rating curve extended above 1,200 ft3/s; minimum, 1.2 ft3/s Dec. 3, 1967, minimum gage height, 1.05 ft part of each day Nov. 8-9, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,560 ft3/s May 31, gage height, 8.14 ft; minimum, 2.3 ft3/s Oct. 29, gage height, 1.41 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 29 to Dec. 2)

2.4	15	4.5	144
2.6	21	5.0	204
3.0	39	5.5	288
3.5	67	6.0	421
4.0	100	7.0	845
		8.0	1520

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	46	66	50	45	42	46	109	840	622	52	29
2	25	71	62	49	43	41	47	120	699	635	49	27
3	24	102	68	52	44	39	46	125	584	648	47	26
4	24	198	60	53	44	40	47	117	596	613	45	25
5	23	154	54	57	43	41	49	112	708	576	43	24
6	22	157	60	56	44	40	50	105	657	556	42	23
7	22	207	60	56	45	41	47	100	592	474	41	22
8	21	128	60	54	43	42	54	108	513	402	40	21
9	30	103	60	52	43	42	51	181	424	350	40	21
10	38	96	62	50	44	42	52	234	364	320	39	19
11	36	160	60	51	43	42	50	215	364	308	35	19
12	31	139	58	51	44	42	52	393	427	301	34	18
13	31	118	58	49	47	43	51	568	525	279	33	18
14	32	104	58	44	45	44	53	851	635	245	32	18
15	30	97	57	40	42	44	65	845	787	224	31	18
16	28	94	50	44	43	43	100	580	958	42	30	18
17	27	95	49	44	43	43	150	418	924	30	29	19
18	26	93	48	43	41	42	160	372	845	42	28	19
19	26	87	52	40	39	42	160	671	867	144	26	22
20	26	85	46	43	42	45	155	829	1040	144	25	28
21	25	75	47	46	44	49	143	777	1250	132	26	66
22	25	70	47	47	42	48	156	580	767	121	59	38
23	55	77	45	48	41	47	198	787	703	117	52	34
24	45	77	50	48	42	48	202	808	829	108	37	33
25	37	78	60	50	42	47	165	356	1100	103	32	30
26	34	75	56	49	40	47	142	657	1100	99	29	29
27	32	70	54	49	41	48	127	657	1040	112	28	29
28	30	70	50	49	42	45	122	680	970	163	32	28
29	17	60	51	47	42	47	116	873	1010	117	31	27
30	16	54	52	46	---	46	110	1350	782	99	33	26
31	38	---	51	44	---	45	---	1310	---	77	35	---
TOTAL	903	3040	1713	1501	1243	1357	2966	15888	22900	8203	1135	776
MEAN	29.1	101	55.3	48.4	42.9	43.8	98.9	513	763	265	36.6	25.8
MAX	55	207	68	57	47	49	202	1350	1250	648	59	66
MIN	16	46	45	40	39	39	46	100	364	30	25	18
CFSM	.60	2.07	1.13	.99	.88	.90	2.02	10.5	15.6	5.42	.75	.53
IN.	.69	2.31	1.30	1.14	.95	1.03	2.26	12.09	17.42	6.24	.86	.59
AC-FT	1790	6030	3400	2980	2470	2690	5880	31510	45420	16270	2250	1540

CAL YR 1983 TOTAL 65784 MEAN 180 MAX 1800 MIN 16 CFSM 3.68 IN. 50.04 AC-FT 130500
WTR YR 1984 TOTAL 61623 MEAN 168 MAX 1350 MIN 16 CFSM 3.44 IN. 46.88 AC-FT 122200

Note.--No gage-height record Oct. 17-19, Dec. 3 to Apr. 20, July 17-19, Sept. 10-19.

13244500 CASCADE RESERVOIR AT CASCADE, ID

LOCATION.--Lat 44°31'30", long 116°03'00", in NE1/4 NE1/4 sec.26, T.14 N., R.3 E., Valley County, Hydrologic Unit 17050123, in gate-control structure at south end of Cascade Dam on North Fork Payette River, 0.5 mi downstream from Willow Creek, 0.8 mi northwest of Cascade, and at mile 40.2.

DRAINAGE AREA.--620 mi2. Mean altitude, 5,960 ft.

PERIOD OF RECORD.--January to December 1948 (fragmentary), January 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (U.S. Bureau of Reclamation levels). National Geodetic Vertical datum of 1929 is 0.66 ft lower. Prior to Nov. 7, 1958, nonrecording gage at north end of dam at present datum.

REMARKS.--Reservoir is formed by earth-fill dam completed in May 1949. Partial storage began Nov. 7, 1947. Full storage first reached in June 1957. Capacity, 703,200 acre-ft between elevations 4,766 ft, 4.0 ft above sill of outlet tunnel and 4,828 ft, top of spillway gates. Figures given herein represent contents above elevation 4,766 ft. U.S. Bureau of Reclamation attempts to limit withdrawal to elevation 4,787.5 ft, retaining 50,000 acre-ft capacity as dead storage. Contents table computed from tables furnished by U.S. Bureau of Reclamation (revised 1950). Water is used for irrigation of lands in the Payette Division of the Boise Project and for power at Black Canyon powerplant near Emmett.

COOPERATION.--Capacity table furnished by U.S. Bureau of Reclamation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 727,000 acre-ft June 10, 11, 1957, elevation, 4,828.89 ft; no contents at times during March and September 1948 (prior to filling of reservoir); minimum after first filling of reservoir in June 1957, 193,000 acre-ft Feb. 8, 1962, elevation, 4,802.15 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 693,100 acre-ft June 30, July 1, elevation, 4,827.61 ft; minimum, 441,200 acre-ft May 13, elevation, 4,816.82 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

4,815.0	405,000
4,820.0	508,600
4,828.0	703,300

CONTENTS (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	560200	510200	512000	493100	447500	465100	483000	457600	576600	692300	649300	538700
2	557400	510200	511700	492900	446500	466100	482500	457800	584800	691500	646800	534600
3	554300	508800	512000	481500	445900	467000	482300	457000	591100	687600	644300	530700
4	551800	510200	511300	478700	445700	467600	481900	455600	597600	683600	641800	526900
5	549000	509000	511100	476600	445700	468000	482500	453500	602900	678900	639200	522200
6	546500	510200	512000	---	445500	468700	482700	451300	608800	677300	636000	520700
7	543800	509000	512000	---	445500	469100	482700	449000	614500	675800	632700	517100
8	541300	507700	512600	---	446100	469700	485100	446500	618700	673200	629100	514600
9	539400	507100	512400	467600	446900	470400	485300	445500	621400	672200	625900	512600
10	537400	507300	516200	466300	446900	471200	485900	443900	622900	671200	622700	510200
11	534600	509900	518900	465100	447500	472100	485500	443500	623600	670900	619500	509300
12	532100	510600	519800	464500	449000	473000	484200	442700	624600	670400	615000	507500
13	531200	512000	520000	463800	451900	474200	480400	442200	625600	669900	611800	505500
14	529600	512400	518900	462600	452900	476100	476800	445700	626900	669400	607800	503100
15	528000	512600	516900	462000	454100	476800	473600	451900	628600	668900	603700	500800
16	526900	510200	514900	461200	455200	477400	471700	457800	629600	668300	600200	497900
17	525600	513100	512800	459900	456200	478000	471000	463200	630700	667600	596100	494900
18	524200	512600	511100	458900	456800	478000	471000	468000	632900	667100	593000	491800
19	523100	511700	509000	457800	---	478300	471200	472300	638200	666300	588900	488300
20	521800	512400	506600	456800	---	478500	470600	478900	646000	665500	584800	487200
21	520400	511700	504500	456000	---	480600	469700	485500	655700	664200	520400	484200
22	519300	510200	502500	455400	---	481000	469500	491400	664700	662900	576900	481000
23	519100	509900	500500	455200	460500	481700	470200	500800	672200	661900	572900	478000
24	517800	512200	500500	454500	461600	483200	470200	507900	678400	660100	569100	474900
25	516900	512400	500300	453700	462400	484000	468700	515700	683600	658300	565100	472300
26	515700	512000	500300	453100	463000	484700	466800	523800	687600	657800	560900	470000
27	514600	512200	500300	452300	463400	485100	464700	530900	688600	657300	557400	467600
28	513500	512400	493300	451700	464100	485500	462800	538300	690700	656300	552500	464700
29	512400	512000	493100	450600	464500	485100	460500	546300	692500	654400	549000	462200
30	511500	511700	493300	449600	---	484200	458700	556700	693100	652900	545800	460100
31	510800	---	493300	449200	---	483600	---	567000	---	650100	542400	---
MEAN	530000	510800	508200	---	---	476300	475100	479000	638400	668500	598700	497700
MAX	560200	513100	520000	493100	464500	485500	485900	567000	693100	692300	649300	538700
MIN	510800	507100	493100	449200	445500	465100	458700	442200	576600	650100	542400	460100
(†)	4820.10	4820.14	4819.30	4817.21	4817.95	4818.85	4817.67	4822.56	4827.61	4825.95	4821.50	4817.74
(‡)	-52300	+900	-18400	-44100	+15300	+19100	-24900	+108300	+126100	-43000	-107700	-82300

CAL YR 1983...........(‡) +10300
WTR YR 1984...........(‡) -103000

(†) Elevation, in feet, at end of month.
(‡) Change in contents, in acre-feet.

13245000 NORTH FORK PAYETTE RIVER AT CASCADE, ID

LOCATION.--Lat 44°31'30", long 116°02'45" in SE1/4 NW1/4 NW1/4 sec.35, T.14 N., R.3 E., Valley County, Hydrologic Unit 17050123, 0.2 mi downstream from Cascade Dam, and at mile 40.0.

DRAINAGE AREA.--620 mi2. Mean altitude, 5,960 ft.

PERIOD OF RECORD.--May 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,720.000 ft, National Geodetic Vertical Datum of 1929. May 1941 to Jan. 28, 1947 (nonrecording gage), Jan. 29, 1947, to Nov. 5, 1958, Oct. 1, 1965, to Sept. 30, 1982, at site 1.4 mi downstream at datum 4,725.310 ft NGVD, Nov. 6, 1958, to Sept. 30, 1965, at site 0.1 mi upstream at datum 4,734.590 ft NGVD.

REMARKS.--Records good. Flow regulated by Payette Lake (see sta 13238500), Lake Fork Reservoir, and Cascade Reservoir 0.2 mi upstream, beginning November 1947 (see sta 13244500). Diversions above station for irrigation of about 39,000 acres, 1966 determination.

AVERAGE DISCHARGE.--43 years, 1,061 ft3/s, 768,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,320 ft3/s May 10, 1947, gage height, 6.29 ft; no flow for part of Oct. 14, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,650 ft3/s June 27, gage height, 15.69 ft; minimum, 123 ft3/s Feb. 13, gage height, 8.59 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

8.8	151	11.0	1000
9.2	226	12.0	1600
10.0	519	14.0	3100
		16.0	4960

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1990	983	742	1610	929	164	1140	2700	1190	4420	1470	2310
2	1990	967	740	1590	903	166	1140	2710	1800	4390	1480	2310
3	1920	978	738	1600	708	163	1160	2670	1810	4370	1570	2320
4	1780	972	730	1600	461	164	1160	2700	2100	4420	1660	2320
5	1720	978	725	1590	461	169	1170	2680	2480	4440	1710	2180
6	1700	988	720	1590	461	162	1160	2670	2480	3350	1770	2010
7	1700	967	700	1580	325	156	1150	2660	2490	2810	1870	1850
8	1680	967	640	1570	158	156	1150	2640	2800	2930	1930	1800
9	1720	961	290	1510	158	156	1150	2580	2950	2450	1910	1770
10	1710	968	205	1550	156	157	1140	2560	2960	1740	1910	1660
11	1710	994	200	1180	157	158	1140	2300	2950	1200	1960	1290
12	1610	967	300	887	158	160	1870	2710	2960	908	2040	1400
13	1480	951	860	882	164	176	2720	2700	2960	841	2050	1700
14	1200	566	1600	856	158	191	2740	2210	2940	836	2150	1710
15	1070	1060	1550	862	152	380	2770	882	2970	836	2230	1710
16	1040	1700	1490	882	162	523	2760	898	2960	846	2170	1970
17	1020	781	1490	893	160	523	2710	978	2960	862	2210	2140
18	1010	1490	1470	887	160	523	2720	903	2960	862	2180	2120
19	999	1410	1500	893	160	523	2690	811	2300	862	2210	2110
20	999	747	1460	898	162	523	2670	801	2020	856	2230	2110
21	977	1040	1470	903	162	519	2670	806	1760	856	2250	2100
22	983	1110	1470	903	163	515	2660	796	1940	887	2200	2100
23	972	747	1470	908	164	519	2670	806	1960	1200	2230	2120
24	972	747	1470	887	163	515	2690	801	1970	1280	2230	1960
25	972	742	1480	898	163	528	2630	806	2820	1310	2220	1800
26	978	742	1510	908	162	532	2700	806	3690	1280	2230	1740
27	999	742	1570	908	162	532	2700	811	4580	1340	2260	1740
28	994	742	1630	898	163	532	2700	811	4530	1360	2330	1770
29	994	742	1580	903	163	929	2700	806	4500	1360	2340	1770
30	978	742	1630	914	---	1140	2700	801	4430	1360	2330	1760
31	988	---	1610	924	---	1140	---	786	---	1430	2340	---
TOTAL	40855	28491	34840	34864	7788	12694	63130	50599	83220	57892	63670	57650
MEAN	1318	950	1124	1125	269	409	2104	1632	2774	1867	2054	1922
MAX	1990	1700	1630	1610	929	1140	2770	2710	4580	4440	2340	2320
MIN	972	566	200	856	156	156	1140	786	1190	836	1470	1290
AC-FT	81040	56510	69110	69150	15450	25180	125200	100400	165100	114800	126300	114300

CAL YR 1983	TOTAL	697767	MEAN	1364	MAX	2780	MIN	200	AC-FT	987300
WTR YR 1984	TOTAL	535693	MEAN	1464	MAX	4580	MIN	156	AC-FT	1063000

13246000 NORTH FORK PAYETTE RIVER NEAR BANKS, ID

LOCATION.--Lat 44°06'30", long 116°06'25", in NW1/4 SE1/4 sec.16, T.9 N., R.3 E., Boise County, Hydrologic Unit 17050123, Boise National Forest, on right bank 40 ft downstream from highway bridge, 2.5 mi north of Banks, and at mile 2.8.

DRAINAGE AREA.--933 mi2. Mean altitude, 5,800 ft.

PERIOD OF RECORD.--April 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,081.13 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by Payette Lake (see sta 13238500), Lake Fork Reservoir, and Cascade Reservoir 37.1 mi upstream, beginning November 1947 (see sta 13244500). Diversions above station for irrigation of about 30,800 acres (1966 determination).

AVERAGE DISCHARGE.--37 years, 1,398 ft3/s, 1,013,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,830 ft3/s May 11, 1947, gage height, about 13.5 ft, estimated on basis of records for station near Smiths Ferry, minimum recorded, 36 ft3/s Dec. 21, 1947, gage height, 3.01 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,380 ft3/s June 29, gage height, 11.03 ft; minimum daily, 290 ft3/s Feb. 9-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2090	965	801	1800	1030	307	1600	3900	2310	5100	1690	2540
2	2080	1050	805	1780	1000	310	1680	4000	3070	5050	1700	2510
3	2050	1040	801	1780	870	317	1750	4000	3150	4990	1700	2500
4	1870	1010	801	1770	670	312	1790	3900	3190	4960	1840	2510
5	1830	1010	769	1740	550	307	1860	3800	3980	4930	1870	2460
6	1750	1000	773	1730	570	307	2110	3750	4030	4820	1940	2250
7	1740	1050	824	1720	580	307	1930	3700	3930	3400	2020	2110
8	1720	1010	848	1720	420	307	2230	3720	3920	3370	2120	1930
9	1750	981	649	1710	290	310	2200	3750	4200	3320	2120	1980
10	1760	981	486	1670	290	320	1900	3700	4120	2440	2110	1780
11	1750	1160	447	1680	290	335	1880	3600	4080	1870	2100	1740
12	1720	1250	456	1220	300	346	2450	3750	4050	1300	2160	1040
13	1550	1200	560	1080	350	354	3800	4000	4120	1110	2260	1760
14	1510	1150	1220	1010	450	431	3900	3900	4080	1070	2230	1790
15	1120	787	1710	976	406	486	4100	3600	4050	1070	2410	1500
16	1040	1540	1700	991	394	699	4200	2810	4080	1050	2380	1840
17	1030	1610	1720	1020	380	815	4500	2580	4040	1050	2400	2250
18	1020	905	1720	995	354	801	4700	2400	4030	1060	2370	2260
19	996	2060	1700	975	341	805	4300	2250	3890	1060	2350	2250
20	1000	1100	1700	1000	333	838	4100	2380	3250	1050	2390	2270
21	971	838	1770	1020	357	1010	4000	2340	3610	1040	2410	2320
22	960	1180	1580	1050	343	1030	4000	2250	2950	1020	2380	2290
23	981	1030	1620	1100	333	1020	4100	2350	3050	1110	2410	2330
24	981	843	1650	1100	330	1050	4100	2390	2930	1510	2370	2290
25	965	867	1680	1070	325	1020	4000	2210	3190	1460	2360	2020
26	955	833	1690	1080	315	991	3900	2310	4280	1510	2360	1900
27	955	819	1740	1050	305	950	3850	2280	4970	1570	2350	1650
28	950	815	1790	1040	305	920	3800	2230	5350	1630	2420	1900
29	950	805	1730	1020	310	910	3800	2280	5330	1770	2450	1900
30	950	778	1800	1020	---	1430	3800	2440	5210	1630	2450	1870
31	955	---	1800	1020	---	1560	---	2500	---	1590	2560	---
TOTAL	41949	31667	39360	39937	12791	20905	96330	95070	116240	69910	68680	62270
MEAN	1353	1056	1269	1288	441	674	3211	3067	3875	2255	2215	2076
MAX	2090	2060	1800	1800	1030	1560	4700	4000	5350	5100	2560	2540
MIN	950	778	447	975	290	307	1600	2210	2310	1020	1690	1040
AC-FT	83210	62810	78030	79220	25370	41470	191100	188600	230600	138700	136200	123500

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CAL YR 1983    TOTAL    678608    MEAN    1859    MAX    4080    MIN    415    AC-FT 1346000
WTR YR 1984    TOTAL    695089    MEAN    1899    MAX    5350    MIN    290    AC-FT 1379000
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Note.--No gage-height record Dec. 22 to Jan. 9, Jan. 18 to Feb. 14, Apr. 9 to May 14.

13247500 PAYETTE RIVER NEAR HORSESHOE BEND, ID

LOCATION.--Lat 43°56'33", long 116°11'45", in NE1/4 SE1/4 sec.15, T.7 N., R.2 E., Boise County, Hydrologic Unit 17050122, on left bank 0.5 mi downstream from Porter Creek, 0.6 mi upstream from concrete highway bridge on State Highway 55, 2 mi north of Horseshoe Bend, and at mile 60.8.

DRAINAGE AREA.--2,230 mi2, approximately. Mean altitude, 5,850 ft.

PERIOD OF RECORD.--February 1906 to September 1916, July 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 533: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,625.61 ft National Geodetic Vertical Datum of 1929. Prior to Nov. 23, 1912, nonrecording gage at site 1.8 mi upstream at different datum. Nov. 23, 1912, to Apr. 16, 1953, water-stage recorder at site 1,000 ft downstream at datum 2.1 ft lower.

REMARKS.--Records excellent. Flow regulated by Deadwood Reservoir beginning November 1930 (see sta 13236000), and Cascade Reservoir 51.9 mi upstream beginning November 1947 (see sta 13244500), and other reservoirs upstream. Diversions above station for irrigation of about 55,100 acres (1966 determination).

AVERAGE DISCHARGE.--75 years, 3,301 ft3/s, 2,392,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,000 ft3/s Dec. 23, 1964, gage height, 16.35 ft; minimum daily, 260 ft3/s Nov. 14, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,400 ft3/s May 15, gage height, 12.25 ft; minimum, 1,040 ft3/s Feb. 9, gage height, 3.27 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

3.0	904	7.0	4080
4.0	1410	9.0	7070
5.0	2090	11.0	11200
		13.0	16300

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3300	1900	1770	2680	1810	1230	3520	6100	13000	12300	3550	3740
2	3100	2170	1870	2600	1800	1330	3690	6690	12300	11600	3350	3560
3	3030	2190	1830	2620	1750	1360	3800	6780	11500	11300	3550	3520
4	2800	2070	1810	2670	1500	1340	3920	6660	11000	11100	3500	3460
5	2730	2110	1640	2710	1340	1330	4160	6470	12000	10800	3350	3530
6	2620	2090	1670	2720	1370	1360	4700	6210	12100	10500	3350	3680
7	2600	2610	1890	2710	1390	1420	4510	6020	11700	8900	3350	3770
8	2580	2440	1970	2670	1230	1530	5040	6120	11400	8610	3350	3600
9	2660	2180	1720	2640	1100	1660	5280	6830	11200	8270	3400	3700
10	2790	2160	1720	2560	1120	1950	4900	7560	10700	7090	3400	3490
11	2710	2870	1770	2580	1080	2110	4550	7790	10300	6280	3360	3420
12	2650	3040	1820	2000	1090	2160	4380	8370	10200	5260	3400	2790
13	2450	2780	1810	1870	1380	2160	5430	10500	10300	4890	3480	3330
14	2460	2550	2430	1770	2010	2640	5710	13000	10600	4450	3410	3400
15	2020	1920	2890	1700	1710	2890	6300	13700	10900	4230	3540	3400
16	1910	2800	2760	1590	1570	3110	7860	11500	11700	3880	3620	3390
17	1880	3100	2680	1760	1460	3300	9870	9590	12400	3720	3560	3750
18	1870	2430	2650	1690	1350	3060	10500	8460	12500	3650	3490	3180
19	1820	3350	2690	1660	1250	2890	9980	8370	12300	3630	3450	3010
20	1830	2500	2570	1780	1210	2980	8830	9280	12000	3600	3460	3040
21	1790	2020	2480	1830	1390	4010	8040	9800	12900	3550	3450	3280
22	1770	2230	2330	1980	1310	4000	8040	9070	11300	3550	3430	3140
23	1840	2140	2360	1980	1250	3710	8530	9260	10800	3550	3460	3130
24	1890	2030	2390	2000	1250	3640	8470	10500	10500	3600	3430	3110
25	1810	2120	2650	1960	1230	3460	7710	9680	11000	3700	3400	2850
26	1780	1940	2880	1960	1190	3300	7140	9560	12600	3750	3380	2720
27	1770	1910	2730	1890	1140	3100	6730	9640	13500	3750	3350	2680
28	1760	1900	2610	1850	1160	2960	6670	9710	13800	3750	3390	2680
29	1790	1820	2630	1810	1210	2820	6250	10400	13700	3700	3410	2680
30	1820	1630	2710	1780	---	3280	6100	12300	13500	3700	3420	2650
31	1870	---	2670	1770	---	3440	---	14000	---	3700	3810	---
TOTAL	69700	69000	70400	65790	39650	79530	190410	279920	353900	184360	106850	97680
MEAN	2248	2300	2271	2122	1367	2565	6347	9030	11800	5947	3447	3256
MAX	3300	3350	2890	2720	2010	4010	10500	14000	13800	12300	3810	3770
MIN	1760	1630	1640	1590	1080	1230	3520	6020	10200	3550	3350	2650
AC-FT	138200	136900	139600	130500	78650	157700	377700	555200	702000	365700	211900	193700

CAL YR 1983	TOTAL	1716310	MEAN	4702	MAX	17500	MIN	1370	AC-FT	3404000
WTR YR 1984	TOTAL	1607190	MEAN	4391	MAX	14000	MIN	1080	AC-FT	3188000

13249500 PAYETTE RIVER NEAR EMMETT, ID

LOCATION.--Lat 43°55'30", long 116°26'30", in SW1/4 NE1/4 sec.22, T.7 N., R.1 W., Gem County, Hydrologic Unit 17050122, on right bank 0.3 mi downstream from Black Canyon Dam, 5 mi northeast of Emmett, and at mile 38.4.

DRAINAGE AREA.--2,680 mi2, approximately.

PERIOD OF RECORD.--June 1925 to current year.

REVISED RECORDS.--WSP 1153: 1946(m), 1948(m).

GAGE.--Water-stage recorder. Datum of gage is 2,400.32 ft National Geodetic Vertical Datum of 1929 (levels by U.S Bureau of Reclamation).

REMARKS.--Records good. Flow regulated by Deadwood Reservoir beginning November 1930 (see sta 13236000), Cascade Reservoir beginning November 1947 (see sta 13244500), other smaller reservoirs, and to some extent by Black Canyon Dam 0.3 mi upstream where flow is regulated by diversion and gate operation at dam. Diversions above station for irrigation of about 160,000 acres, of which about 43,700 acres are below station and about 53,000 acres are in adjacent basins (1966 determination).

AVERAGE DISCHARGE.--59 years, 3,076 ft3/s, 2,229,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,700 ft3/s Dec. 23, 1964, gage height, 15.88 ft; minimum daily discharge, 0.7 ft3/s Jan. 7, 1957, gage height, -1.49 ft, when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,900 ft3/s May 15, gage height, 10.87 ft; minimum, 23 ft3/s Oct. 29, gage height, -0.38 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

2.5	1160	6.0	5900
3.0	1690	9.0	12200
4.0	2820	12.0	20000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2460	2110	2140	2780	1990	1610	4080	6320	13100	11600	1900	2310
2	2280	2290	2130	2770	1990	1700	6240	6980	12000	10800	1930	2090
3	2260	2460	2120	2490	1970	1930	6440	7180	11200	10400	1910	2010
4	2090	2290	2100	2140	1870	2000	6350	7110	10600	10200	1840	2040
5	1970	2270	2050	2380	1660	1940	6380	6830	11900	9850	1890	2090
6	1900	2290	2030	2850	1660	1920	6900	6470	12200	9580	1870	2290
7	1890	2600	2020	2840	1560	2040	5180	6150	11900	8210	1670	2540
8	1970	2780	2080	2740	1490	2090	6280	6160	11500	7660	1870	2420
9	2010	2380	2120	2890	1450	2400	7250	6750	11200	7340	1830	2480
10	2130	2340	2150	2890	1340	2900	6140	7770	10600	6210	1820	2350
11	2100	2740	2230	2750	1410	3230	5500	7890	10300	5190	1750	2250
12	2030	3470	2330	2370	1370	3560	5220	8540	10200	4140	1780	1870
13	1910	2990	2210	2020	1810	3480	5990	10900	10200	3550	1840	2010
14	1940	2850	2520	1930	2990	4440	6460	13500	10400	3110	1810	2300
15	2310	2330	3310	1740	2670	4720	7060	14800	10600	2920	1920	2360
16	2140	2380	3090	1620	2300	5300	8930	12900	11300	2500	2020	2330
17	2110	3410	3030	1570	2180	5760	11400	10400	12000	2250	1960	2530
18	2090	3130	2920	1580	1950	4780	12400	9010	12200	2190	1900	2290
19	2060	3130	2920	1580	1780	4120	12200	8770	11900	2160	1850	1990
20	2010	3270	2690	1610	1690	4150	10700	9520	11600	2060	1860	2000
21	2020	2910	2270	1610	1710	5690	9630	10300	12700	2030	1840	2210
22	1970	2610	1940	1840	1780	6160	9300	9440	11300	1920	1840	2170
23	2000	2240	2230	1910	1750	5220	9750	9370	10300	2030	1840	2090
24	1500	2240	2120	2060	1710	4880	9580	10600	10000	2320	1850	2180
25	1670	2270	2110	2260	1700	4650	8840	9890	10400	2120	1810	2050
26	2010	2280	2860	2350	1690	4360	8010	9500	11700	1970	1790	1880
27	2000	2260	2850	2270	1630	3980	7400	9740	12700	2100	1780	1830
28	1970	2240	2620	2220	1590	3630	6950	9700	13200	2210	1800	1820
29	1840	2220	2430	2140	1590	3470	6550	10200	13000	2440	1830	1860
30	2010	2190	2610	2080	---	3610	6250	11900	12800	2090	1850	1880
31	2050	---	2710	2000	---	3950	---	13800	---	1860	2230	---
TOTAL	62700	76950	74970	68250	52280	113670	219240	288390	345000	144910	57880	64610
MEAN	2023	2565	2418	2203	1803	3667	7308	9303	11500	4675	1867	2154
MAX	2460	3470	3310	2890	2990	6160	12400	14800	13200	11600	2230	2630
MIN	1500	2110	1940	1570	1340	1610	4080	6150	10000	1860	1750	1820
AC-FT	124400	152600	148700	135400	103700	225500	434900	572000	684300	287400	114800	128200

CAL YR 1983	TOTAL	1744930	MEAN	4781	MAX	18000	MIN	1500	AC-FT	3461000
WTR YR 1984	TOTAL	1568380	MEAN	4287	MAX	14800	MIN	1340	AC-FT	3112000

13250000 PAYETTE RIVER NEAR LETHA, ID

LOCATION.--Lat 43°53'47", long 116°37'33", in SE1/4 SW1/4 SW1/4 sec.31, T.7 N., R.2 W., Gem County, Hydrologic Unit 17050122, on left bank just upstream from county road bridge, 1.1 mi east of Letha, and at mile 25.

DRAINAGE AREA.--2,760 mi2, approximately.

PERIOD OF RECORD.--October 1978 to September 1983, October 1983 to current year (irrigation season only). July to November 1952, March to November 1953, at site 0.6 mi upstream not equivalent due to inflow between sites.

GAGE.--Water-stage recorder. Altitude of gage is 2,280 ft, from topographic map.

REMARKS.--Records good. Flow regulated by Deadwood Reservoir (see sta 13236000), Cascade Reservoir (see sta 13244500), and to some extent by Black Canyon Dam about 13.5 mi upstream. Diversions above station for irrigation of about 190,000 acres, of which 50,000 acres are located below station. About 53,000 acres are in adjacent basins (1966 determination).

AVERAGE DISCHARGE.--5 years (1978-83), 3,190 ft3/s, 2,311,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft3/s May 30, 1983, gage height, 15.76 ft; minimum, 250 ft3/s Dec. [illegible], 1980, gage height, 7.81 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,900 ft3/s May 15, gage height 14.57 ft; minimum recorded, 441 ft3/s Oct. 2-, gage height, 7.90 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2010	2340					4200	5990	12100	10700	1120	1730
2	1880	2550					4400	6540	11100	9910	1160	1450
3	1840	2800					4550	6530	10500	9540	1170	1400
4	1690	2620					4500	6780	9830	9310	1050	1370
5	1550	2560					4550	6460	10900	9020	1110	1350
6	1500	2600					5000	6130	11100	8730	1130	1500
7	1380	2760					5300	5780	11000	7620	1060	1930
8	1510	3350					6200	5710	10700	6930	1090	1870
9	1540	2730					7500	6110	10400	6660	1110	1460
10	1670	2620					6530	7180	10000	5670	1060	1790
11	1700	2900					5900	7280	9630	4600	992	1910
12	1560	3940					5540	7760	9520	3570	1010	1400
13	1570	3420					6200	9690	9520	2800	1030	1220
14	1560	3290					6730	11700	9660	2420	1060	1640
15	1990	2870					7210	13200	9870	2060	1120	1740
16	1770	2470					8750	12200	10300	1760	1230	1750
17	1710	3870					10700	9970	11000	1440	1220	1490
18	1680	3630					11700	8640	11200	1370	1150	1850
19	1660	3540					11800	8250	11000	1330	1100	1400
20	1930	3820					10500	8700	10600	1290	1090	1390
21	2170	3400					9370	9520	11500	1230	1060	1600
22	2120	3050					9100	8960	10600	1120	1080	1640
23	2130	2640					9370	8790	9690	1140	1050	1330
24	1610	2590					9280	9690	9600	1510	1120	1590
25	1850	2600					8670	9310	9630	1330	1050	1570
26	2190	2620					7810	8790	10600	1130	1040	1360
27	2180	2590					7260	9050	11400	1180	1020	1290
28	2180	2570					6710	8990	11900	1330	1020	1260
29	1950	2550					6390	9430	11700	1590	1080	1310
30	2310	2520					5940	10600	11600	1370	1090	1340
31	2320	---					---	12300	---	1080	1380	---
TOTAL	56710	87560					217630	266330	317850	120730	34098	46840
MEAN	1829	2929					7254	8591	10600	3895	1100	1561
MAX	2320	3960					11800	13200	12100	10700	1380	1990
MIN	1380	2340					4200	5710	9400	1080	998	1220
AC-FT	112500	174300					431700	528300	630500	239500	67610	92910

13251000 PAYETTE RIVER NEAR PAYETTE, ID

LOCATION.--Lat 44°02'33", long 116°55'27", in NE1/4 SE1/4 SW1/4 sec.10, T.8 N., R.5 W., Payette County, Hydrologic Unit 17050122, on right bank just upstream from bridge on U.S. Highway 95, 1.8 mi south of Payette, and at mile 4.1.

DRAINAGE AREA.--3,240 mi2, approximately.

PERIOD OF RECORD.--August 1935 to current year. Records for January 1895 to July 1897 (published as "at Payette" in 18th and 19th Annual Reports) have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1397: 1949(m), 1952, 1953-56(m).

GAGE.--Water-stage recorder. Datum of gage is 2,138.44 ft National Geodetic Vertical Datum of 1929. Aug. 1, 1935, to Aug. 7, 1939, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.--Records good. Flow regulated by Deadwood Reservoir (see sta 13236000), Cascade Reservoir beginning November 1947 (see sta 13244500), other smaller reservoirs, and to some extent by Black Canyon Dam 34.6 mi upstream where flow is regulated by diversion and gate operation at dam. Diversions above station for irrigation of about 196,000 acres of which about 100 acres are by withdrawals from ground water, about 5,100 acres are located below station, and about 53,000 acres are in adjacent basins (1966 determination).

AVERAGE DISCHARGE.--49 years, 3,183 ft3/s, 2,306,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,900 ft3/s Dec. 24, 1964, gage height, 13.80 ft; minimum, 71 ft3/s July 1, 1977, gage height, 3.27 ft; minimum daily, 130 ft3/s June 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,400 ft3/s May 15, gage height, 10.56 ft, from recorded range in stage; minimum 1,677 ft3/s Oct. 25, gage height, 4.09 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Apr. 6 to July 3)

4.4	1060	6.0	3510
5.0	1900	8.0	7950
		11.0	15600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2460	2400	2480	3120	2340	1940	4540	6100	12300	11500	1360	2250
2	2540	2370	2430	3130	2260	2260	4690	6600	11400	10600	1490	2090
3	2430	2790	2430	3120	2320	2430	4830	6900	10700	9990	1400	1980
4	2360	2660	2410	2410	2290	2430	4720	6800	10100	9700	1370	1960
5	2180	2590	2380	2690	1980	2370	4830	6500	11100	9400	1410	1930
6	2120	2620	2340	2920	1930	2400	5270	6200	11700	9080	1410	2360
7	2030	2690	2320	3390	1900	2540	5600	5800	11300	8310	1360	2400
8	2120	3220	2570	3120	1750	2620	7120	5700	10900	7170	1270	2450
9	2120	2740	2560	3170	1770	3080	8400	6100	10800	6890	1310	2310
10	2260	2630	2920	3290	1620	3550	6890	7200	10200	6100	1270	2410
11	2310	2800	2930	3150	1660	4010	6300	7400	9800	4980	1170	2190
12	2250	3740	3470	3000	1660	4330	5800	8300	9700	4030	1140	2060
13	2170	3370	3080	2430	2010	4630	6300	10000	9800	3120	1200	1590
14	2170	3200	2960	2340	4010	5760	6800	12000	10000	2790	1250	2070
15	2410	2900	3870	2120	3640	6470	7450	13900	10200	2410	1220	2200
16	2340	2370	3790	2000	3050	6420	8800	12600	10900	2220	1410	2250
17	2230	3600	3490	1730	2880	7640	11200	10200	11500	1770	1470	2290
18	2220	3570	3420	1720	2570	5900	12100	9000	11700	1700	1440	2410
19	2170	3420	3330	1760	2280	5220	12000	8450	11400	1650	1340	1590
20	2290	3680	3200	1760	2060	5290	10800	8950	11300	1620	1340	1940
21	2320	3370	2770	1900	2040	7260	9500	9700	12000	1560	1310	1970
22	2200	3030	2200	2060	2070	7120	9500	8100	11900	1500	1330	2230
23	2250	2680	2100	2310	2040	6190	9600	8900	10500	1430	1360	2100
24	1930	2600	2560	2370	2000	5850	9600	9900	10000	1690	1410	2170
25	1870	2760	2530	2600	2000	5490	8900	9250	10100	1690	1370	2220
26	2310	2650	2980	2800	2000	5110	8000	9000	10800	1490	1370	1980
27	2310	2600	3120	2770	1930	4590	7400	9200	11800	1630	1360	1960
28	2310	2570	3030	2690	1870	4150	6800	9200	12400	1690	1340	1330
29	2040	2540	2690	2620	1870	3970	6400	9750	12300	1940	1370	1390
30	2480	2530	2920	2490	---	4130	6000	11000	12200	1490	1400	1400
31	2380	---	3030	2380	---	4630	---	12800	---	1530	1720	---
TOTAL	69580	86890	88300	79340	63800	139380	226140	271200	330800	132870	41970	62710
MEAN	2245	2896	2848	2559	2200	4496	7538	8748	11030	4286	1354	2090
MAX	2540	3740	3870	3390	4010	7640	12100	13900	12400	11500	1720	2450
MIN	1870	2370	2100	1720	1620	1940	4540	5700	9700	1430	1140	1590
AC-FT	138000	172300	175100	157400	126500	276500	448500	537900	656100	263500	83250	124400

CAL YR 1983	TOTAL	1805200	MEAN	4946	MAX	16400	MIN	1370	AC-FT	3581000
WTR YR 1984	TOTAL	1592980	MEAN	4352	MAX	13900	MIN	1140	AC-FT	3160000

Note.--No gage-height record Apr. 11 to June 19.

13258500 WEISER RIVER NEAR CAMBRIDGE, ID

LOCATION.--Lat 44°34'47", long 116°38'20", in SE1/4 NE1/4 sec.1, T.14 N., R.3 W., Washington County, Hydrologic Unit 17050124, on left bank 100 ft upstream from road bridge, 2.2 mi northeast of Cambridge, 2.5 mi upstream from Rush Creek, and at mile 48.7.

DRAINAGE AREA.--605 mi2. Mean altitude, 4,650 ft.

PERIOD OF RECORD.--March 1939 to current year.

REVISED RECORDS.--WDR ID 1971: 1970(M).

GAGE.--Water-stage recorder. Datum of gage is 2,647.00 ft National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Aug. 29, 1956, to Aug. 19, 1966, at datum 5.0 ft higher, Aug. 20, 1966, to July 8, 1976, at datum 3.00 ft higher. Apr. 23, 1939, to Dec. 21, 1955, at site 135 ft downstream at different datum. Nonrecording gage at different datum, prior to Apr. 23, 1939, at site 135 ft downstream and Dec. 22, 1955, to Aug. 28, 1956, at bridge 2.5 mi downstream.

REMARKS.--Records good except those for winter periods and periods of no gage-height record, which are fair. Flow regulated to some extent by Lost Valley Reservoir about 37 mi upstream, capacity reported to be 11,000 acre-ft and other smaller reservoirs. Diversions above station for irrigation of about 12,200 acres, 1966 determination.

AVERAGE DISCHARGE.--45 years, 673 ft3/s, 487,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft3/s Dec. 22, 1955, gage height, 13.7 ft, from floodmark, site and datum then in use; minimum, 7.1 ft3/s Aug. 21-24, 1977, gage height, 2.23 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,300 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Mar. 15	1915	*4320	*9.76	Apr. 8	1700	3590	9.06
Mar. 21	1330	3760	9.23	Apr. 19	1530	4310	9.75

Minimum discharge, 88 ft3/s Aug. 28, 29, gage height, 2.61 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Jan. 15-26, Feb. 13, 14)

2.7	85	5.0	710
3.0	121	6.0	1220
3.5	207	8.0	2600
4.0	340	10.0	4390

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	128	292	340	216	352	1310	1290	2600	1080	166	228
2	96	147	289	310	220	535	1400	1890	2070	950	170	230
3	96	172	272	280	223	685	1430	1980	1830	870	156	229
4	93	201	257	360	218	673	1390	2070	1900	800	159	203
5	91	232	212	470	223	681	1460	2020	2310	740	150	132
6	90	188	246	380	205	673	1740	1860	2600	710	140	125
7	90	229	277	350	210	702	1590	1730	2550	850	136	123
8	89	179	421	310	216	756	2480	1800	2410	640	130	127
9	101	159	424	285	216	822	2630	1890	2140	600	131	143
10	131	161	1130	275	218	1070	2140	2090	1950	450	120	143
11	120	428	1520	248	214	1290	1820	2070	1860	385	124	135
12	114	343	1730	234	212	1780	1760	2420	1820	371	118	135
13	115	319	1060	234	295	2050	1610	2700	1780	343	112	135
14	116	257	827	195	860	3680	1440	3010	1740	329	110	135
15	115	220	706	102	935	3790	1620	3220	1800	307	108	132
16	114	239	624	114	789	3300	2310	2790	1860	273	108	140
17	114	535	440	121	677	3830	3190	2400	1790	262	101	142
18	114	403	350	100	562	2710	3220	2150	1730	252	101	142
19	109	307	340	112	471	2120	3900	2150	1670	259	101	141
20	109	331	275	100	490	2590	3230	2440	1790	244	101	140
21	108	301	215	130	505	3640	2570	2500	1930	265	101	173
22	109	249	160	150	453	2890	2300	2370	1620	254	100	155
23	138	249	135	160	424	2500	2440	2740	1480	228	98	155
24	143	316	160	180	424	2370	2420	2790	1460	207	95	159
25	125	685	190	257	428	1990	2060	2390	1470	189	93	157
26	119	468	235	272	377	1860	1740	2470	1490	169	95	157
27	116	407	170	252	368	1630	1490	2410	1430	193	93	154
28	116	377	200	242	352	1470	1340	2360	1370	175	94	150
29	118	328	275	239	362	1330	1280	2480	1340	191	90	150
30	118	257	330	237	---	1240	1250	2870	1240	181	96	143
31	124	---	375	223	---	1280	---	2900	---	168	154	---
TOTAL	3446	8815	14135	7262	11363	56289	60560	72250	54820	12963	3653	4615
MEAN	111	294	456	234	392	1816	2019	2331	1827	418	118	154
MAX	143	685	1730	470	935	3830	3900	3220	2600	1080	170	230
MIN	89	128	135	100	205	352	1250	1290	1240	168	90	123
AC-FT	6840	17480	28040	14360	22540	111600	120100	143300	108700	25710	7250	9150

CAL YR 1983	TOTAL	368370	MEAN	1009	MAX	6040	MIN	89	AC-FT	730700
WTR YR 1984	TOTAL	310151	MEAN	847	MAX	3900	MIN	89	AC-FT	615200

Note.--No gage-height record Dec. 16-28, Dec. 30 to Jan. 11, May 8-22, June 28 to July 11, Sept. 3-20.

13266000 WEISER RIVER NEAR WEISER, ID

LOCATION.--Lat 44 16'03", long 116 46'16", in NE1/4 SE1/4 SE1/4 sec.23, T.11 N., R.4 W., Washington County, Hydrologic Unit 17050124, on right bank 0.25 mi upstream from county road bridge, 2.0 mi downstream from Crane Creek, 10 mi east of Weiser, and at mile 14.9.

DRAINAGE AREA.--1,460 mi2, approximately.

PERIOD OF RECORD.--March 1890 to June 1891, December 1894 to October 1896, April to September 1897, March 1898 to November 1899, March 1900 to December 1904, October 1910 to December 1914, October 1952 to current year. Published as "at Weiser" prior to 1900.

REVISED RECORDS.--WSP 1347: 1895-1905, 1953(M).

GAGE.--Water-stage recorder. Datum of gage is 2,206.1 ft National Geodetic Vertical Datum of 1929. Prior to October 1952, nonrecording gages at several sites downstream within 1.5 mi of present site at various datums. October 1952 to January 1974, water-stage recorder 1,000 ft upstream at different datum. January to October 1974, nonrecording gage at nearby sites and different datums.

REMARKS.--Records good except for winter periods and periods of no gage-height record, which are fair. Flow slightly regulated since 1911 by Crane Creek Reservoir 14.3 mi upstream, capacity about 51,700 acre-ft, and other small reservoirs. Diversions above station for irrigation of about 30,400 acres, 1966 determination.

AVERAGE DISCHARGE.--41 years (1896, 1899, 1901-04, 1912-14, 1953-84), 1,173 ft3/s, 849,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,000 ft3/s Feb. 22, 1982, gage height, 12.04 ft; maximum gage height, 16.00 ft Feb. 14, 1979 (ice jam); minimum observed, 14 ft3/s Aug. 7, 1911, gage height, 2.80 ft, site and datum then in use; minimum gage height, 1.45 ft Nov. 29, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 19, 1932, reached a discharge of about 17,500 ft3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,800 ft3/s Mar. 17, gage height, 11.18 ft; minimum, 229 ft3/s Dec. 23, gage height, 3.99 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 23, Jan. 15-17, 19-24)

4.0	233	7.0	3440
4.5	495	8.0	5300
5.0	882	9.0	7520
6.0	1960	10.0	10400
		11.0	14800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	262	412	520	720	550	1110	2360	2000	3440	1420	522	600
2	279	430	490	595	564	1300	2430	2550	2990	1260	508	600
3	284	501	485	510	564	1680	2450	2700	2620	1160	508	564
4	275	543	460	470	564	1690	2360	2670	2550	1090	508	536
5	271	629	430	660	564	1730	2420	2610	3290	1020	508	356
6	275	637	355	900	543	1730	2830	2430	3450	944	495	325
7	271	652	470	800	536	1800	2530	2230	3520	891	468	320
8	266	652	667	740	550	1940	3870	2190	3290	813	455	351
9	275	585	796	700	550	2010	4470	2450	2990	730	449	395
10	315	578	1560	660	564	2680	3520	2880	2700	652	443	389
11	346	738	2940	640	550	3020	3160	2820	2550	593	455	361
12	320	1120	4170	620	564	4190	2950	3290	2510	543	436	361
13	320	953	2200	600	615	5170	2880	3780	2450	501	424	356
14	330	899	1640	607	1530	8960	2510	4530	2350	488	418	356
15	335	755	1490	450	1910	11500	2620	4740	2410	462	415	351
16	325	629	1230	462	1650	11400	3320	4040	2580	430	418	361
17	330	600	1060	530	1680	14100	4210	3350	2580	406	488	367
18	325	746	882	475	1290	10000	4430	2920	2460	389	488	367
19	325	550	856	435	1110	7190	5440	2940	2360	462	481	361
20	335	529	706	435	1080	8160	4950	3340	2520	462	475	351
21	340	578	488	365	1170	10800	3970	3490	2770	436	475	351
22	340	468	401	425	1070	8390	3560	3210	2380	436	468	429
23	367	412	300	475	1020	6610	3570	3290	2090	436	468	414
24	430	488	360	500	1010	5880	3500	3740	2050	436	462	417
25	424	700	420	530	1020	4720	3080	3210	2090	424	468	426
26	395	1050	500	543	972	4580	2620	3060	2090	449	462	432
27	395	800	620	571	926	3970	2360	3180	2080	522	462	431
28	395	680	560	564	926	3340	2100	3080	1950	564	455	421
29	383	620	520	593	1110	3030	2000	3210	1850	557	443	411
30	383	560	630	607	---	2740	1900	3740	1640	593	443	415
31	395	---	660	585	---	2530	---	3990	---	550	468	---
TOTAL	10311	19494	28866	17767	26552	157950	94370	97660	76600	20119	14439	12175
MEAN	333	650	931	573	916	5095	3146	3150	2553	649	466	406
MAX	430	1120	4170	900	1910	14100	5440	4740	3520	1420	522	600
MIN	262	412	300	365	536	1110	1900	2000	1640	389	418	320
AC-FT	20450	38670	57260	35240	52670	313300	187200	193700	151900	39910	28640	24150

CAL YR 1983 TOTAL 684921 MEAN 1876 MAX 11100 MIN 189 AC-FT 1359000
WTR YR 1984 TOTAL 576303 MEAN 1575 MAX 14100 MIN 262 AC-FT 1143000

13269000 SNAKE RIVER AT WEISER, ID

LOCATION.--Lat 44°14'44", long 116°58'48", in NW1/4 SE1/4 sec.31, T.11 N., R.5 W., Washington County, Hydrologic Unit 17050124, on right bank at upstream side of U.S. Highway 30N bridge at Weiser, 0.7 mi downstream from Weiser River, and at mile 351.3.

DRAINAGE AREA.--69,200 mi2, approximately. Mean altitude, 5,400 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1910 to current year. Fragmentary gage-height record obtained by U.S. Weather Bureau since 1895. Monthly discharge only for October 1910, published in WSP 1317.

REVISED RECORDS.--WSP 1317: 1918. WSP 1567: 1910(M). WDR ID-76-1: 1975

GAGE.--Water-stage recorder. Datum of gage is 2,086.64 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1914, nonrecording gage 0.2 mi downstream at different datum. Oct. 1, 1914, to Oct. 11, 1933, nonrecording gage, and Oct. 12, 1933, to Apr. 13, 1964, water-stage recorder, at site 0.3 mi upstream at same datum.

REMARKS.--Records good. Flow regulated by many reservoirs above station. Diurnal fluctuation caused by hydroelectric plants upstream. Diversions above station for irrigation of about 3,650,000 acres of which about 742,000 acres are by withdrawals from ground water. In addition, approximately 7,300 acres are irrigated below station by diversion from Weiser River (1966 determination).

AVERAGE DISCHARGE.--74 years, 18,490 ft3/s, 13,396,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 84,500 ft3/s Apr. 29, 1952, gage height, 14.67 ft, site and datum then in use; maximum gage height recorded, 15.55 ft Dec. 20, 1972 (backwater from ice jam); minimum observed, 4,570 ft3/s July 1, 1977, gage height, 1.32 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 3, 1910, reached a stage of 17.1 ft at site and datum 0.3 mi upstream, from reading on old U.S. Weather Bureau gage, discharge, 120,000 ft3/s. Flood in June 1894 was considerably higher.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 80,000 ft3/s Apr. 20, gage height, 13.66 ft; minimum, 10,600 ft3/s Aug. 24, 25, gage height, 2.86 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Jan. 2 to Apr. 16; stage-discharge relation affected by ice Jan. 19)

2.0	6850	7.0	32800
3.0	11200	9.0	45500
5.0	21400	11.0	59600
		13.5	78800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16600	28200	26400	34300	34500	22300	46600	56000	59000	40000	16400	15900
2	17400	28300	25700	34600	34000	22700	46300	54200	54500	36000	17600	15900
3	17600	27600	24700	34800	33500	24600	46200	54500	56000	34600	18100	16000
4	17400	25200	24000	34300	32900	24500	46900	55500	56000	32900	19100	16000
5	18100	23400	24000	34200	31300	23300	45800	56900	55500	31600	19400	16000
6	18700	23200	24400	35300	29700	24500	46400	57200	55500	29700	18600	16000
7	17900	23400	23200	36100	28200	24900	46800	57800	57000	28400	18100	16800
8	18000	23300	24700	35900	27600	25500	47300	56200	58000	25900	17500	17100
9	≈19200	23500	24800	36500	27600	25900	54500	56200	58000	25300	14200	17100
10	20000	23500	27000	36800	26800	28600	52100	56100	55500	25100	13500	17100
11	20100	24100	30300	36600	23900	32600	51000	55800	60000	23600	12900	17000
12	19900	26200	34500	36400	23200	36800	49300	57600	61500	21600	12000	16200
13	20000	25800	32100	35900	21500	39500	49300	58800	59500	20400	11800	15500
14	22400	25600	31400	35500	27400	44200	51600	62200	58000	19400	11600	15800
15	23000	25400	32400	35300	28600	49100	54200	67400	58000	15900	11500	16900
16	23000	24700	31900	35400	27700	52600	57400	67100	58000	14800	12400	17100
17	20900	25700	30300	34300	27400	56700	62100	67200	58000	13600	12100	18200
18	21800	26800	30000	33600	28100	55200	70500	67500	56000	12200	12300	18500
19	22700	27500	30600	32400	27800	48700	76600	68800	56000	12000	12600	17000
20	22300	28100	31500	33200	25800	49100	78700	69600	56000	11800	13600	17100
21	23200	28100	32000	33000	24800	52600	74300	70500	57500	10900	13800	16400
22	23400	27800	30500	32100	22500	53700	69900	69800	57100	11700	13300	17200
23	24200	26900	29600	33400	21400	52200	66400	69500	55100	11800	13200	17300
24	24700	26600	26000	33300	21600	48300	65100	68500	54100	13200	11300	17400
25	25000	28400	28200	33700	23300	47300	63700	68000	52700	15300	11900	18200
26	25000	27700	30000	35800	22000	45600	60600	67500	51100	15000	13400	19800
27	27000	25900	31000	37500	21900	44300	61500	66500	50800	13900	13800	19100
28	27200	26100	32400	36300	22200	42500	62100	65000	49200	14600	14900	18600
29	28500	25900	32800	35400	22000	40900	61800	66500	39000	14700	14000	19800
30	27800	26700	34200	35100	---	43300	59200	65500	39500	15400	13900	19600
31	27600	---	34000	34900	---	46500	---	64500	---	14800	14800	---
TOTAL	680600	779600	904600	1081900	769200	1228500	1724000	1944600	1655100	626100	443600	516600
MEAN	21950	25990	29180	34900	26520	39630	57470	62720	55170	20200	14310	17220
MAX	28500	28400	34500	37500	34500	56700	78700	70500	61500	40000	19400	19800
MIN	16600	23200	23200	32100	21400	22300	45800	54200	39000	10900	11300	15500
AC-FT	1350000	1546000	1794000	2146000	1526000	2437000	3420000	3857000	3283000	1242000	879900	1025000

CAL YR 1983 TOTAL 11506400 MEAN 31520 MAX 62300 MIN 10800 AC-FT22823000
WTR YR 1984 TOTAL 12354200 MEAN 33750 MAX 78700 MIN 10900 AC-FT24505000

13269000 SNAKE RIVER AT WEISER, ID--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1967 to December 1981 (discontinued).
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 28.5°C July 25-28, 1975, July 21, 1977; minimum, 0.0°C on several days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV 18...	1030	27400	441	8.5	8.5	8.0	10.9	100	K63	360	170
JAN 27...	1000	36700	393	8.4	-2.0	2.0	12.8	99	100	>2000	150
MAR 27...	1310	E44300	309	8.2	12.0	7.5	10.5	96	88	450	100
MAY 21...	1540	68900	294	8.4	19.0	13.5	9.4	98	300	340	96
JUL 26...	1140	15100	412	8.7	34.0	25.5	8.4	111	140	2600	150
SEP 26...	1430	20700	434	8.6	23.0	14.0	9.1	95	K95	390	170

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV 18...	43	15	27	25	.9	3.7	163	47	17	.60	24
JAN 27...	38	13	24	25	.9	3.5	146	36	18	.50	23
MAR 27...	26	9.0	22	31	1	3.7	110	28	11	.50	27
MAY 21...	25	8.1	16	26	.7	3.0	90	23	11	.40	20
JUL 26...	37	14	33	32	1	4.0	138	50	13	.50	20
SEP 26...	42	15	32	29	1	4.0	158	51	19	.50	27

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 18...	275	280	.37	20300	.92	.010	1.0	.090	.050	.020
JAN 27...	238	240	.32	23600	.90	.020	.40	.130	.060	.060
MAR 27...	197	190	.27	--	.78	<.010	.90	.220	.060	.070
MAY 21...	179	160	.24	33300	.35	.100	.70	.150	.040	.020
JUL 26...	257	250	.35	10500	.38	.110	.90	.150	.010	.010
SEP 26...	295	290	.40	16500	1.1	.040	.70	.100	.050	.050

K Results based on counts outside ideal colony range.

13269000 SNAKE RIVER AT WEISER, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV										
18...	4	<10	45	<.5	<1	2	<3	1	11	<1
MAR										
27...	3	250	31	<.5	<1	1	<3	4	92	2
MAY										
21...	1	150	33	1	<1	2	<3	3	97	6
SEP										
26...	5	70	43	1	<1	1	<3	4	61	<1

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV										
18...	49	3	<.1	<10	1	<1	<1	240	7	10
MAR										
27...	15	5	<.1	<10	<1	<1	<1	150	7	12
MAY										
21...	16	6	<.1	<10	2	<1	<1	150	<6	18
SEP										
26...	28	6	<.1	<10	<1	<1	<1	230	10	8

DATE	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV		
18...	33	--
JAN		
27...	85	--
MAR		
27...	112	98
MAY		
21...	102	87
JUL		
26...	117	88
SEP		
26...	86	54

13289700 BROWNLEE RESERVOIR AT BROWNLEE DAM, IDAHO-OREGON STATE LINE

LOCATION.--Lat 44°50'03", long 116°53'58", in SE1/4 SE1/4 sec.2, T.17 N., R.5 W., Washington County, Hydrologic Unit 17050201, at Brownlee Dam on Snake River near Idaho end of dam, 1.1 mi upstream from Wildhorse River, 3.5 mi downstream from Brownlee Creek, 10.5 mi east of Halfway, Oreg., and at mile 285.0.

DRAINAGE AREA.--72,590 mi2, approximately.

PERIOD OF RECORD.--May 1958 to current year. Published as "at Idaho-Oregon State line" 1958-59.

GAGE.--Remote registering water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Idaho Power Co.). Prior to Feb. 2, 1959, nonrecording gage or levels to water surface at present site and datum.

REMARKS.--Reservoir is formed by earth-fill dam. Storage began May 5, 1958. Dam was completed in fall of 1958. Normal pool elevation, 2,077 ft. Water is used for power generation.

COOPERATION.--Water-stage recorder graph and capacity table furnished by Idaho Power Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,454,000 acre-ft Aug. 6, 1962, elevation, 2,079.91 ft; minimum since full capacity was attained June 23, 1959, 441,200 acre-ft Apr. 25, 1971, elevation, 1,975.20 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,434,000 acre-ft July 3, elevation, 2,077.54 ft; minimum, 955,900 acre-ft Mar. 2, elevation, 2,037.62 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

2,030.0	830,600
2,040.0	977,100
2,060.0	1,198,000
2,080.0	1,469,000

CONTENTS (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1238000	1416000	1407000	1379000	1228000	962100	1042000	1193000	1218000	1426000	1401000	1355000
2	1263000	1416000	1406000	1368000	1220000	956800	1036000	1213000	1230000	1427000	1406000	1363000
3	1272000	1419000	1400000	1364000	1215000	972700	1030000	1211000	1235000	1432000	1398000	1362000
4	1276000	1416000	1392000	1359000	1207000	996600	1024000	1239000	1239000	1430000	1402000	1357000
5	1281000	1410000	1388000	1360000	1203000	992800	1017000	1237000	1246000	1430000	1403000	1349000
6	1287000	1404000	1383000	1355000	1198000	992000	1009000	1224000	1253000	1427000	1400000	1343000
7	1294000	1398000	1376000	1349000	1186000	991700	1004000	1210000	1258000	1425000	1395000	1336000
8	1299000	1395000	1368000	1346000	1172000	988400	1000000	1197000	1267000	1421000	1391000	1351000
9	1313000	1397000	1369000	1343000	1158000	982000	1011000	1179000	1276000	1421000	1381000	1346000
10	1319000	1393000	1366000	1341000	1139000	983900	1016000	1161000	1274000	1420000	1370000	1337000
11	1329000	1391000	1385000	1340000	1120000	999300	1006000	1145000	1274000	1418000	1365000	1331000
12	1328000	1396000	1401000	1333000	1099000	1010000	997300	1133000	1282000	1415000	1364000	1326000
13	1326000	1401000	1412000	1334000	1078000	1011000	984400	1124000	1295000	1411000	1370000	1319000
14	1329000	1397000	1412000	1324000	1065000	1017000	977600	1119000	1295000	1416000	1373000	1317000
15	1341000	1397000	1415000	1320000	1061000	1038000	977600	1123000	1299000	1417000	1375000	1312000
16	1352000	1395000	1419000	1313000	1055000	1047000	981500	1130000	1297000	1416000	1372000	1307000
17	1350000	1393000	1417000	1307000	1044000	1060000	997300	1136000	1297000	1414000	1382000	1307000
18	1343000	1398000	1415000	1302000	1041000	1076000	1028000	1139000	1302000	1422000	1373000	1312000
19	1338000	1397000	1414000	1296000	1034000	1076000	1062000	1144000	1310000	1402000	1393000	1312000
20	1337000	1401000	1422000	1283000	1023000	1096000	1100000	1155000	1322000	1404000	1395000	1315000
21	1339000	1404000	1416000	1278000	1015000	1144000	1125000	1162000	1336000	1411000	1394000	1318000
22	1333000	1406000	1417000	1274000	1004000	1161000	1144000	1168000	1345000	1425000	1391000	1316000
23	1334000	1409000	1412000	1267000	991200	1167000	1158000	1175000	1346000	1420000	1376000	1313000
24	1338000	1409000	1406000	1264000	978800	1158000	1171000	1185000	1350000	1409000	1367000	1310000
25	1372000	1413000	1391000	1263000	976300	1151000	1174000	1192000	1349000	1403000	1368000	1310000
26	1342000	1411000	1391000	1260000	972500	1133000	1171000	1192000	1359000	1397000	1367000	1308000
27	1344000	1409000	1397000	1260000	961600	1115000	1168000	1189000	1374000	1390000	1368000	1299000
28	1348000	1406000	1396000	1251000	959600	1095000	1166000	1186000	1387000	1399000	1360000	1294000
29	1365000	1405000	1398000	1243000	959600	1075000	1163000	1185000	1406000	1401000	1355000	1294000
30	1385000	1405000	1384000	1240000	---	1062000	1200000	1186000	1411000	1402000	1340000	1297000
31	1410000	---	1385000	1237000	---	1048000	---	1197000	---	1391000	1346000	---
MEAN	1326600	1403600	1398400	1308300	1081500	1050300	1064700	1175100	1304400	1414300	1378700	1323900
MAX	1410000	1419000	1422000	1379000	1228000	1167000	1200000	1239000	1411000	1432000	1406000	1363000
MIN	1238000	1391000	1368000	1237000	959600	956800	977600	1119000	1218000	1390000	1340000	1294000
(†)	2075.80	2075.45	2073.99	2062.99	2038.19	2047.05	2060.15	2059.95	2075.90	2074.45	2071.20	2067.55
(‡)	+191000	-5000	-20000	-148000	-277600	+88600	+152000	-3000	+214000	-20000	-45000	-49000

CAL YR 1983...............(‡) -21000
WTR YR 1984...............(‡) +78000

(†) Elevation, in feet, at end of month.
(‡) Change in contents, in acre-feet.

13289960 WILDHORSE RIVER AT BROWNLEE DAM, ID

LOCATION.--Lat 44°51'08", long 116°53'24", in NW1/4 SE1/4 sec.36, T.18 N., R.5 W., Adams County, Hydrologic Unit 17050201, on left bank 0.25 mi upstream from mouth and 1.1 mi northeast of Brownlee Dam.

DRAINAGE AREA.--177 mi2.

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,820 ft, from topographic map.

REMARKS.--Records good. Small diversions upstream for irrigation.

AVERAGE DISCHARGE.--6 years, 186 ft3/s, 134,800 acre-ft/yr. The figure published in the 1983 report was in error; the correct figure is 5 years, 177 ft3/s, 128,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,290 ft3/s Apr. 24, 1983, gage height, 9.12 ft; minimum, 15 ft3/s Nov. 20, 1979, gage height, 4.65 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,140 ft3/s Apr. 8, gage height, 7.33 ft; minimum daily, 16 ft3/s Jan. 18.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 19, 21-29, Jan. 15-24)

4.0	30	5.5	309
4.2	45	6.0	478
4.5	80	7.0	923
5.0	176	8.0	1500

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	43	51	52	56	92	576	463	635	306	76	56
2	41	45	52	51	58	125	614	584	532	291	80	49
3	41	47	51	51	56	129	631	609	467	279	76	45
4	40	58	49	51	56	129	635	622	482	265	79	46
5	40	62	45	51	53	131	724	609	532	251	71	43
6	39	60	51	50	56	135	809	540	605	236	67	42
7	39	71	51	51	53	139	692	501	657	217	64	42
8	38	59	53	51	53	160	923	520	614	204	59	43
9	42	56	53	50	53	180	804	609	536	192	59	43
10	42	55	73	50	53	243	715	652	501	183	57	42
11	42	63	82	50	53	356	648	626	489	167	55	41
12	41	67	89	49	53	385	609	626	489	151	53	40
13	41	64	80	49	91	389	576	771	485	145	53	39
14	41	59	78	43	156	674	631	858	482	139	53	39
15	41	57	76	40	143	631	790	923	501	133	51	38
16	41	59	65	34	119	544	898	838	508	125	50	37
17	41	68	63	19	106	548	1030	679	520	115	50	36
18	41	67	60	16	91	420	888	597	516	113	47	35
19	41	59	58	18	97	369	923	597	493	112	46	35
20	42	58	49	21	92	618	1020	683	497	103	46	37
21	42	52	43	35	97	838	959	701	508	101	45	43
22	41	46	39	41	91	706	873	616	467	94	43	41
23	47	50	33	48	86	683	833	679	416	92	41	41
24	46	56	29	58	88	697	888	692	409	89	42	40
25	43	56	33	62	85	622	742	584	441	78	42	41
26	43	56	37	57	83	549	670	[illegible]	463	76	42	41
27	42	53	42	54	86	508	576	552	463	85	42	41
28	42	53	39	54	86	508	532	548	420	85	41	41
29	42	48	48	54	89	493	493	609	416	103	40	40
30	42	45	63	54	---	489	463	724	346	85	42	40
31	42	---	53	55	---	524	---	706	---	78	63	---
TOTAL	1288	1690	1688	1419	2336	13013	22165	19900	14890	4696	1675	1236
MEAN	41.5	56.3	54.5	45.8	80.6	420	739	642	496	151	54.0	41.2
MAX	47	71	89	62	156	838	1030	923	657	306	80	56
MIN	38	43	29	16	53	92	463	463	346	76	40	35
AC-FT	2550	3350	3350	2810	4630	25810	43960	39470	29530	9310	3320	2450

CAL YR 1983 TOTAL 85441 MEAN 234 MAX 1630 MIN 29 AC-FT 169500
WTR YR 1984 TOTAL 85996 MEAN 235 MAX 1030 MIN 16 AC-FT 170600

13290190 PINE CREEK NEAR OXBOW, OR

LOCATION.--Lat 44°57'13", long 116°52'21", in NE1/4 SW1/4 sec.17, T.7 S., R.48 E., Baker County Hydrologic Unit 17050201, 1.3 mi south of Oxbow, and at mile 1.9.

DRAINAGE AREA.--230 mi2, approximately.

PERIOD OF RECORD.--November 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,850.48 ft National Geodetic Vertical Datum of 1929 (levels by Idaho Power Co.). Prior to Aug. 24, 1967, nonrecording gage at site 1.7 mi downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of about 19,000 acres, 1966 determination.

AVERAGE DISCHARGE.--17 years, 393 ft3/s, 284,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,110 ft3/s Feb. 21, 1968, gage height, 9.82 ft; minimum, 10 ft3/s Aug. 17-24, 1977, gage height, 2.12 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,040 ft3/s Mar. 21, gage height, 7.63 ft; minimum, 43 ft3/s Aug. 30, gage height, 2.32 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	100	184	275	98	126	620	442	1340	948	162	140
2	76	114	176	250	88	132	620	640	1080	905	138	112
3	76	140	176	260	98	202	590	661	917	874	126	103
4	78	174	169	250	91	229	580	677	1090	856	199	102
5	76	146	162	320	88	232	630	620	1170	851	171	98
6	78	241	169	300	82	244	880	546	1390	845	157	95
7	78	349	194	270	82	261	731	495	1240	758	138	91
8	79	164	229	260	87	288	1140	523	1080	656	120	105
9	79	151	241	240	84	316	1040	625	936	575	107	107
10	81	151	417	230	85	372	821	693	851	532	102	100
11	81	267	703	215	81	482	687	714	923	527	85	98
12	84	218	999	150	84	703	671	893	936	523	81	95
13	85	207	551	140	116	905	575	1160	967	491	78	90
14	85	187	451	115	216	1750	546	1550	1040	447	76	85
15	85	207	388	85	202	1780	703	1430	1150	417	68	87
16	87	221	331	95	197	1620	1080	1070	1250	388	63	85
17	88	320	284	98	189	1570	1340	868	1180	353	58	74
18	85	261	251	84	167	1990	1290	886	1140	334	59	65
19	85	227	229	91	148	1550	1340	1040	1160	302	57	60
20	85	229	187	83	155	1590	1100	1280	1140	261	57	65
21	84	213	112	110	162	2550	917	1210	1210	232	58	79
22	85	194	100	130	146	2090	886	1010	1010	216	57	85
23	116	194	90	145	136	1440	999	1350	961	205	56	100
24	105	213	100	160	134	1540	936	1330	1030	216	54	102
25	98	227	130	169	134	1160	753	1080	1240	210	53	93
26	93	205	160	136	132	1090	635	1190	1390	205	49	98
27	93	199	130	112	124	868	537	1220	1450	210	48	96
28	91	197	175	105	126	775	504	1270	1380	205	46	91
29	91	189	220	103	126	781	447	1510	1470	224	45	72
30	93	184	270	102	---	687	425	1880	1190	202	46	73
31	100	---	290	103	---	630	---	1890	---	181	124	---
TOTAL	2679	6089	8266	5166	3660	29953	24023	31753	34311	14149	2738	2746
MEAN	86.4	203	267	167	126	966	801	1024	1144	456	88.3	91.5
MAX	116	349	999	320	216	2550	1340	1890	1470	948	199	140
MIN	76	100	90	83	81	126	425	442	851	181	45	60
AC-FT	5310	12080	16400	10250	7260	59410	47650	62980	68060	28060	5430	5450

CAL YR 1983	TOTAL	201626	MEAN	552	MAX	2460	MIN	67	AC-FT	399900
WTR YR 1984	TOTAL	165533	MEAN	452	MAX	2550	MIN	45	AC-FT	328300

Note.--No gage-height record Dec. 21 to Jan. 25.

13290450 SNAKE RIVER AT HELLS CANYON DAM, IDAHO-OREGON STATE LINE

LOCATION.--Lat 45°15'05", long 116°41'50", in SE1/4 SE1/4 sec.33, T.3 S., R.49 E., unsurveyed (Willamette meridian), Wallowa County, Hydrologic Unit 17050201, Wallowa-Whitman National Forest, on left bank 0.2 mi upstream from Hells Canyon Creek, 0.4 mi downstream from Deep Creek, 0.6 mi downstream from Hells Canyon Dam, 15.5 mi northeast of Homestead, Oreg., and at mile 247.0.

DRAINAGE AREA.--73,300 mi2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1965 to current year.

REVISED RECORDS.--WDR ID-78-2: 1969-70, 1972-76, WDR ID-79-2: 1972-73 (m).

GAGE.--Water-stage recorder. Datum of gage is 1,400.00 ft National Geodetic Vertical Datum of 1929 (levels by Idaho Power Company).

REMARKS.--Records good. Flow regulated by many reservoirs above station with a total usable capacity of more than 10,000,000 acre-feet, the most effective of which is Brownlee Reservoir 38 mi upstream (see sta 13289700). Diurnal fluctuations caused by Hells Canyon powerplant. Diversions above station for irrigation of about 3,820,000 acres of which 742,000 acres are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--19 years, 22,380 ft3/s, 16,214,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 87,800 ft3/s Feb. 23, 1982, gage height, 84.05 ft; minimum, 1,530 ft3/s Mar. 19, 1967, gage height, 59.9 ft; minimum daily, 4,360 ft3/s May 5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 78,400 ft3/s May 8, gage height, 92.23 ft; minimum, 7,670 ft3/s July 22, gage height, 64.34 ft; minimum daily discharge, 8,070 ft3/s July 22.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

64.5	7990	70.0	22500
67.0	13700	75.0	41500
		82.0	77100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9240	24000	27700	42000	38900	23900	55100	66300	60800	38900	17400	11000
2	9030	27800	27400	40900	38400	24100	55000	65200	60800	38000	13400	12100
3	13600	27400	26900	39300	37500	16900	55000	66100	60500	37700	22300	16000
4	14700	26300	26600	37800	36600	16300	55000	44400	60500	37300	17100	20400
5	17100	29100	28000	37500	35300	25800	54900	65800	60400	37200	19900	21000
6	16300	25400	28000	37400	36300	28500	54800	69200	60400	37000	20600	23600
7	16100	23500	28300	37700	33000	24500	54800	69400	60600	35400	20900	21500
8	16500	23500	30200	38500	34000	29500	54900	69200	60700	32700	20400	16900
9	13900	24000	28400	38800	34900	29700	55200	69700	60800	29200	22800	17400
10	16000	24600	27700	39400	35000	30000	58100	71200	60900	27100	19400	19600
11	19200	26400	26400	39600	34900	30100	60000	70600	61200	26900	15300	19900
12	19200	26000	26000	39500	34900	33700	60100	69400	61400	25400	13000	19900
13	19700	25400	28900	39300	34500	42700	60100	69600	61400	23900	12100	20400
14	19900	26300	30300	38400	33900	45800	60100	71400	61400	19200	10800	19400
15	19500	27200	30600	38400	32300	50000	60000	71700	62700	18100	10900	19900
16	19500	26800	31400	38500	32300	54000	61800	71400	62900	18100	10600	21600
17	22600	26900	32000	37300	32500	55600	64700	71300	63800	16300	12500	18900
18	25100	27200	32200	37300	31500	58500	64900	71500	62700	15600	10200	15300
19	25100	29200	32900	36800	31500	58300	65000	71600	60500	16900	9720	20500
20	24000	29200	32900	36200	31500	41800	67100	71500	60200	14600	15000	15900
21	25000	29300	33000	35500	30600	40200	70100	71300	60900	10600	13900	17100
22	24200	29300	31900	35800	30100	56000	70200	71600	60800	8070	17100	18800
23	23600	29200	30800	36400	30100	58500	70000	71300	61800	13200	17800	19900
24	26100	29700	30900	35800	28000	59600	70200	71700	64400	17300	19100	19700
25	25400	28000	30900	36900	25900	59600	70700	72100	61400	17400	11300	20700
26	25600	28200	30900	37600	25000	59600	71200	72100	52800	19800	13800	20400
27	26000	28100	30600	39200	24600	59600	71100	72200	50300	20000	14400	25800
28	25900	28000	33200	39900	24000	56900	71200	72600	49000	13600	19800	22800
29	21600	27700	34700	39700	23500	55200	71300	72500	44800	12100	17800	21400
30	17300	28700	35100	39000	---	55200	46200	72200	41700	16700	18300	18800
31	24300	---	38000	38800	---	55100	---	68000	---	20800	19200	---
TOTAL	621270	812400	942800	1185200	929500	1335200	1858800	2133900	1772500	718070	496020	573500
MEAN	20040	27080	30410	38230	32050	43070	61960	68840	59080	23160	16000	19120
MAX	26100	29700	38000	42000	38900	59600	71300	72500	64400	38900	22800	25800
MIN	9030	23500	26000	35500	23500	16300	46200	44400	41700	8070	9720	11000
AC-FT	1232000	1611000	1870000	2351000	1844000	2648000	3687000	4233000	3516000	1424000	983900	1138000

CAL YR 1983 TOTAL 12676900 MEAN 34730 MAX 65600 MIN 9030 AC-FT25145000
WTR YR 1984 TOTAL 13379160 MEAN 36560 MAX 72500 MIN 8070 AC-FT26538000

13290450 SNAKE RIVER AT HELLS CANYON DAM, IDAHO-OREGON STATE LINE--Continued

(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1970 to current year.
REMARKS.--Miscellaneous chemical data published for water year 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV 17...	0945	31200	478	8.4	8.0	11.5	8.1	80	K2	43	180
MAR 22...	1245	56900	346	8.4	12.0	7.5	13.4	118	K8	20	120
MAY 22...	1015	72300	265	7.6	16.5	13.0	12.3	123	K13	31	92
SEP 27...	1130	29700	436	8.1	11.0	18.5	6.2	70	K1	61	160

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV 17...	45	16	36	29	1	4.2	170	49	17	.60	23
MAR 22...	30	11	24	30	1	3.5	126	34	13	.50	26
MAY 22...	24	7.8	15	26	.7	2.5	91	22	9.2	.40	20
SEP 27...	39	14	32	30	1	4.7	150	50	15	.50	23

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 17...	293	290	.40	24700	.92	.140	1.4	.060	.050	.050
MAR 22...	222	220	.30	34100	.85	.130	.50	.120	.060	.060
MAY 22...	164	160	.22	32000	.40	.020	.40	.070	.050	.080
SEP 27...	274	270	.37	22000	.89	.040	.40	.070	.070	.070

DATE	ARSENIC DIS-SOLVED (UG/L AS AS)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV 17...	5	<10	44	<.5	<1	2	<3	<1	4	2
MAR 22...	4	100	34	<.5	<1	<1	<3	2	61	3
MAY 22...	1	90	29	1	<1	1	<3	2	62	2
SEP 27...	5	10	45	1	<1	<1	<3	2	6	<1

K Results based on counts outside ideal colony count range.

13290450 SNAKE RIVER AT HELLS CANYON DAM, IDAHO-OREGON STATE LINE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV										
17...	44	1	<.1	<10	17	1	<1	250	9	11
MAR										
22...	19	2	<.1	<10	1	<1	<1	170	7	57
MAY										
22...	16	2	.2	<10	2	<1	<1	150	<6	11
SEP										
27...	25	2	<.1	<10	1	<1	<1	220	9	8

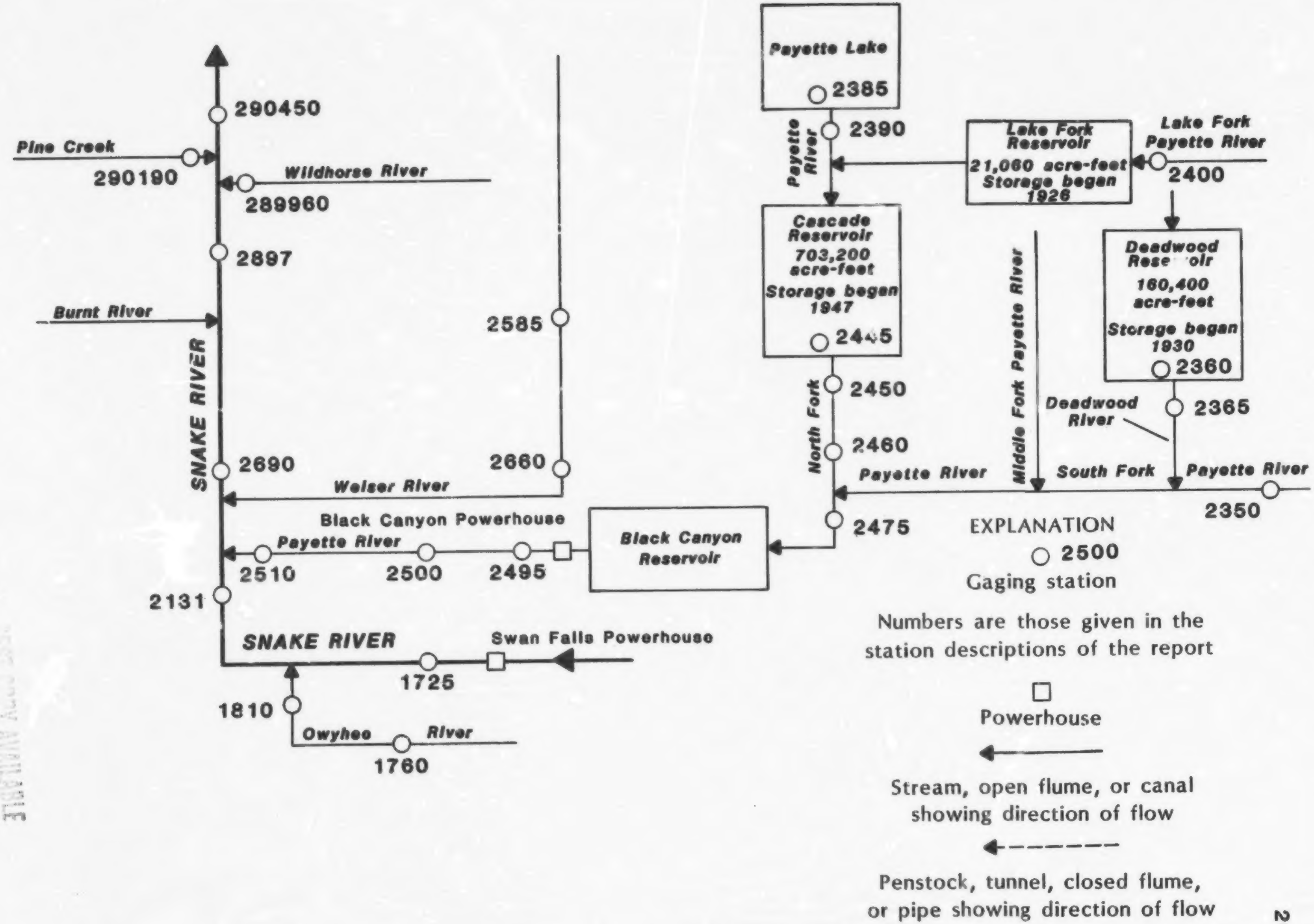
Payette Lake
2385
2390
Payette River
Lake Fork Reservoir
21,060 acre-feet
Storage began 1926
Lake Fork Payette River
2400
Cascade Reservoir
703,200 acre-feet
Storage began 1947
2445
Deadwood Reservoir
160,400 acre-feet
Storage began 1930
2360
2365
Deadwood River
Middle Fork Payette River
North Fork
2450
2460
Payette River
South Fork
Payette River
2350
2475
290450
Pine Creek
290190
Wildhorse River
289960
2897
Burnt River
2585
SNAKE RIVER
2690
2660
Weiser River
Black Canyon Powerhouse
Black Canyon Reservoir
Payette River
2510
2500
2495
2131
SNAKE RIVER
Swan Falls Powerhouse
1725
1810
Owyhee River
1760
EXPLANATION
○ 2500
Gaging station
Numbers are those given in the station descriptions of the report
□
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow

Figure 20. -- Gaging stations in Payette and Weiser River basins.

13293800 SALMON RIVER ABOVE REDFISH LAKE CREEK, NEAR STANLEY, ID

LOCATION.--Lat 44°09'50", long 114°53'10", in NE1/4 sec.25, T.10 N., R.13 E., Custer County, Hydrologic Unit 17060201, Sawtooth National Forest, at U.S. Highway 93 crossing and 4.5 mi southeast of Stanley. Temperature recorder is on right bank 1.4 mi upstream and 6 mi southeast of Stanley.
DRAINAGE AREA.--Not determined.
PERIOD OF RECORD.--Water years 1973, 1975, 1977 to September 1984 (discontinued).
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1978 to September 1984 (discontinued).
INSTRUMENTATION.--Temperature recorder since July 13, 1978.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 20.0°C Aug. 6, 8, 1978, July 17, 23, 26, 1979; minimum, 0.0°C on many days during winter months.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 18.5°C July 15-16, 24-25, 30-31, Aug. 1; minimum, 0.0°C on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO
JAN 20...	1100	229	154	7.8	-31.0	.0	11.5	24	1.9	4.9	13	.3
JUL 28...	1215	805	115	7.8	14.0	12.5	8.4	19	1.5	3.0	11	.2

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)
JAN 20...	.50	73	6.1	.70	.80	17	82	100	.11	51	.10	.030
JUL 28...	.50	52	4.9	.70	.50	12	75	73	.10	163	.20	.030

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	PCB, TOTAL (UG/L)
JAN 20...	.20	<.010	.040	3	<1	6	5	50	<1	<.1	20	<.1
JUL 28...	.20	.010	.010	2	<1	5	11	230	9	.4	30	<.1

DATE	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)
JAN 20...	<.010	<.1	<.010	<.010	--	.02	<.010	<.010	<.010	<.01	<.010
JUL 28...	<.010	<.1	<.010	<.010	<.010	<.01	<.010	<.010	<.010	<.01	<.010

DATE	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)
JAN 20...	<.010	.010	<.01	<.01	<.01	<.01	<.01	<.10	<.01	<.1	<1
JUL 28...	<.010	<.010	<.01	<.01	<.01	<.01	<.01	<.10	<.01	<.1	<1

13293800 SALMON RIVER ABOVE REDFISH LAKE CREEK, NEAR STANLEY, ID--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	10.0	7.5	8.0	6.5	1.5	.0	---	---	1.5	.0	5.5	2.5
2	8.5	6.5	7.0	6.0	.5	.0	---	---	1.0	.0	6.0	2.5
3	9.0	6.0	8.0	6.0	1.5	.5	---	---	2.0	.0	5.0	.5
4	12.0	7.0	7.5	6.5	1.5	.0	---	---	2.5	.0	3.5	.0
5	11.0	6.0	7.5	6.0	.5	.0	---	---	2.0	.0	4.0	.0
6	10.5	6.0	7.5	6.0	1.0	.5	---	---	2.5	.0	5.5	1.5
7	11.5	7.5	6.5	3.5	3.0	1.0	---	---	2.5	.0	6.0	.0
8	9.0	5.5	5.0	3.0	3.0	.0	---	---	1.5	.0	6.0	.0
9	9.5	7.5	3.5	2.0	2.5	.5	---	---	2.5	.0	7.5	3.0
10	9.0	7.0	5.5	3.5	3.5	1.5	---	---	3.0	1.5	5.5	2.5
11	9.5	5.0	4.5	3.5	2.0	1.0	---	---	2.5	.0	7.0	3.0
12	9.0	5.0	4.5	2.5	2.5	.5	---	---	3.5	.5	6.0	2.5
13	8.0	6.0	3.5	1.5	2.5	1.0	---	---	3.5	2.0	4.0	2.5
14	6.5	6.0	4.5	2.0	3.0	1.0	---	---	3.5	1.0	5.0	1.5
15	9.0	5.5	5.0	2.5	2.5	.0	---	---	2.0	.0	5.5	2.0
16	8.0	4.0	4.0	2.5	.0	.0	---	---	3.0	.5	7.0	2.5
17	8.0	4.5	4.5	2.5	.0	.0	---	---	3.0	.5	4.5	2.0
18	8.5	5.5	4.0	2.5	.0	.0	---	---	2.5	.0	5.0	.0
19	8.0	3.5	3.0	1.0	.0	.0	---	---	1.5	.0	7.5	2.0
20	9.0	4.5	3.0	1.0	.0	.0	.0	.0	2.0	.0	9.5	4.0
21	9.5	6.0	3.0	.0	.0	.0	.5	.0	2.0	1.5	6.0	3.5
22	9.5	5.0	.5	.0	---	---	1.0	.0	4.0	.5	6.0	2.5
23	9.0	6.5	2.5	.0	---	---	1.5	.5	3.5	.0	7.0	1.0
24	8.5	3.0	2.0	1.0	---	---	3.0	1.0	3.0	1.0	6.0	2.5
25	7.5	3.0	3.0	1.0	---	---	3.0	1.0	4.0	1.0	3.5	.5
26	8.0	3.5	1.5	.0	---	---	2.0	.0	3.5	.0	5.5	1.0
27	9.0	3.5	3.0	1.0	---	---	3.5	1.5	3.0	.0	7.0	1.0
28	7.5	3.5	2.5	.5	---	---	2.0	.0	4.5	.0	5.0	.0
29	8.5	5.0	1.0	.0	---	---	1.0	.0	5.5	1.5	6.0	1.0
30	7.0	4.5	.0	.0	---	---	.5	.0	---	---	8.0	1.0
31	8.0	5.5	---	---	---	---	.5	.0	---	---	7.5	1.5
MONTH	12.0	3.0	8.0	.0	3.5	.0	3.5	.0	5.5	.0	9.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.0	2.0	8.0	3.5	11.5	4.5	16.0	9.0	16.0	12.5	15.5	9.0
2	7.5	2.0	8.5	3.5	10.0	5.5	16.0	9.5	16.5	11.0	15.5	7.5
3	8.5	2.0	8.0	3.5	8.5	6.0	16.5	10.0	17.5	11.0	15.5	8.0
4	8.0	2.0	8.0	2.5	8.5	5.5	16.5	10.0	17.0	11.0	16.0	8.0
5	6.5	4.0	9.0	3.5	11.5	6.0	17.5	10.0	17.5	11.5	14.0	9.0
6	7.0	4.0	8.0	2.5	11.0	6.5	16.5	11.5	17.5	10.5	12.5	9.5
7	9.0	2.0	10.0	2.0	10.0	6.5	17.0	11.5	17.5	10.0	12.5	8.5
8	6.5	3.0	11.5	3.5	10.0	6.0	17.0	11.0	18.5	10.5	11.5	7.5
9	8.0	1.5	10.5	5.5	8.5	5.5	15.0	10.0	18.0	10.5	14.5	7.5
10	5.5	2.0	9.0	5.0	8.0	5.5	17.0	9.0	17.0	10.5	11.0	7.0
11	8.5	1.5	7.5	5.0	10.5	6.0	17.5	10.0	17.5	12.0	10.5	8.0
12	6.0	1.5	12.0	5.0	10.5	6.0	17.5	10.5	17.0	10.5	11.0	6.5
13	8.5	1.0	13.5	4.0	10.5	7.0	17.5	10.0	15.0	11.0	13.0	5.5
14	10.5	2.0	9.5	5.0	12.0	6.5	17.5	10.0	17.5	9.5	13.5	5.5
15	10.5	3.0	8.0	4.0	14.5	7.5	18.5	10.5	16.0	10.5	14.5	8.5
16	11.5	3.5	7.5	3.0	14.0	7.5	18.5	10.5	17.0	12.0	14.5	8.0
17	8.0	4.5	8.0	2.5	14.0	7.0	17.5	11.0	17.0	10.5	14.5	7.5
18	7.0	4.0	11.0	3.5	13.5	8.0	16.0	12.0	17.5	10.5	14.0	8.0
19	7.5	3.0	11.0	4.5	13.5	8.5	17.5	11.0	17.0	11.0	14.0	9.0
20	6.5	3.0	9.5	6.0	12.5	8.5	16.5	11.0	16.5	9.5	13.0	11.5
21	9.5	3.5	9.5	3.5	11.5	8.0	15.5	11.5	17.0	9.0	11.5	8.5
22	10.5	3.5	11.0	3.5	13.5	7.0	15.5	11.5	13.5	9.0	8.5	6.0
23	9.5	4.5	8.5	5.5	14.5	7.5	15.5	11.5	15.5	10.5	8.5	4.5
24	6.0	2.0	8.5	4.5	15.0	8.0	18.5	11.5	16.5	9.5	7.0	4.5
25	4.0	1.0	9.0	4.5	15.5	9.0	18.5	12.0	14.5	10.0	7.0	3.0
26	5.5	1.0	10.0	5.5	15.5	9.0	18.0	12.0	16.0	10.0	10.5	6.0
27	7.5	1.0	11.5	4.0	16.0	9.0	17.0	13.0	16.0	9.5	9.0	5.0
28	7.0	1.5	13.0	5.0	16.5	9.5	16.5	12.5	16.5	10.5	8.5	4.5
29	9.5	3.0	14.0	5.5	16.0	11.0	17.5	12.0	16.5	9.5	9.0	4.5
30	7.0	3.0	12.5	7.5	15.0	8.5	18.5	11.0	16.0	10.5	9.5	5.0
31	---	---	12.0	6.5	---	---	18.5	11.0	13.5	11.0	---	---
MONTH	11.5	1.0	14.0	2.0	16.5	4.5	18.5	9.0	18.5	9.0	16.0	3.0
YEAR	18.5	.0										

13296500 SALMON RIVER BELOW YANKEE FORK, NEAR CLAYTON, ID

LOCATION.--Lat 44°16'06", long 114°43'55", in sec.20, T.11 N., R.15 E. (unsurveyed), Custer County, Challis National Forest, on left bank 700 ft downstream from Yankee Fork, 18 mi upstream from Clayton, and at mile 366.9.

DRAINAGE AREA.--802 mi2. Mean altitude, 7,790 ft.

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for some periods, published in WSP 1317. Operated as high-flow station only 1972-76 (discharge for period October 1976 to April 1977 was estimated).

REVISED RECORDS.--WSP 1347: 1931. WSP 1567: Drainage area. WDR ID-77-1: 1974-76 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft, by barometer. Oct. 3, 1926, to Nov. 5, 1934, at site 200 ft downstream at approximately present datum. Prior to Oct. 3, 1926, nonrecording gage at site 200 ft downstream at datum approximately 1.5 ft higher.

REMARKS.--Records excellent. Diversions above station for irrigation of about 4,400 acres, 1966 determination.

AVERAGE DISCHARGE.--59 years, 1,013 ft3/s, 17.15 in./yr, 733,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft3/s June 17, 1974, gage height, 11.86 ft; minimum, 163 ft3/s, estimated, Nov. 25-30, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,350 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
May 16	0030	4600	7.60	June 21	0730	5110	8.08
May 31	1045	*6040	8.86				

Minimum discharge, 393 ft3/s Mar. 5, gage height, 1.91 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 25, 26)

2.0	426	5.0	2180
3.0	870	7.0	4000
4.0	1450	9.0	6210

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	795	715	655	584	504	488	504	884	5560	3950	1230	565
2	724	752	655	563	489	490	499	938	4890	3560	1180	632
3	705	735	676	626	495	476	506	919	4450	3340	1130	619
4	683	731	679	637	501	450	526	889	4040	3190	1030	603
5	662	828	590	634	494	449	541	848	3790	3000	1060	537
6	648	827	650	612	492	495	534	852	3570	2590	1020	836
7	636	1270	680	594	497	465	546	809	3340	2370	954	747
8	625	964	686	594	479	475	574	910	3160	2780	913	709
9	791	555	670	558	489	495	560	1220	2950	2600	880	706
10	825	870	704	542	506	496	562	1410	2760	2400	845	665
11	725	1140	695	585	489	494	567	1470	2710	2190	861	654
12	696	1020	691	562	496	493	543	1950	2580	2050	843	644
13	690	944	657	547	516	493	545	2640	2540	1950	834	643
14	749	898	690	510	523	515	605	3660	2630	1850	808	636
15	701	857	674	478	483	512	798	4370	2860	1750	779	652
16	673	840	565	493	520	507	1090	4220	3480	1660	795	648
17	665	860	567	505	516	490	1180	3520	3880	1600	810	657
18	659	831	581	481	487	496	1170	3140	4070	1530	759	639
19	641	805	584	472	458	510	1090	3230	4160	1480	743	625
20	641	801	575	484	473	566	995	3820	4600	1440	711	643
21	635	711	535	519	515	577	1010	4050	5040	1410	697	790
22	625	610	510	542	504	536	1180	3790	4630	1390	684	699
23	668	695	450	530	482	546	1260	3850	4130	1790	707	675
24	651	744	525	537	499	531	1180	3810	4030	1620	691	656
25	629	757	610	533	494	523	1070	3460	4180	1460	685	652
26	621	693	670	524	474	517	936	3650	4410	1380	688	652
27	614	717	633	525	464	494	925	3620	4490	1420	645	539
28	613	709	592	514	460	507	916	3690	4490	1570	622	630
29	646	659	621	496	493	497	878	4110	4470	1470	601	625
30	656	563	647	482	---	497	864	4990	4440	1350	595	621
31	678	---	651	489	---	498	---	5920	---	1260	665	---
TOTAL	20968	24401	19398	16757	14312	15578	24182	86629	116400	64230	25515	19849
MEAN	676	813	626	541	494	503	806	2794	3880	2072	823	662
MAX	825	1270	704	637	523	577	1260	5920	5560	3950	1230	836
MIN	613	563	450	472	458	449	499	809	2540	1260	595	537
CFSM	.84	1.01	.78	.67	.62	.63	1.00	3.48	4.84	2.58	1.03	.83
IN.	.97	1.13	.90	.78	.66	.72	1.12	4.02	5.40	2.98	1.18	.92
AC-FT	41590	48400	38480	33240	28390	30900	47960	171800	230900	127400	50610	39370

CAL YR 1983 TOTAL 481944 MEAN 1320 MAX 7040 MIN 385 CFSM 1.65 IN. 22.35 AC-FT 955900
WTR YR 1984 TOTAL 448219 MEAN 1225 MAX 5920 MIN 449 CFSM 1.53 IN. 20.79 AC-FT 859000

13297330 THOMPSON CREEK NEAR CLAYTON, ID

LOCATION.--Lat 44°16'01", long 114°30'48", in NE1/4 NE1/4 SE1/4 sec.24, T.11 N., R.16 E., Custer County, Hydrologic Unit 17060201, on right bank 1.2 mi upstream from mouth, 2.2 mi below Pat Hughes Creek, and 5.7 mi west of Clayton.

DRAINAGE AREA.--29.1 mi2.

PERIOD OF RECORD.--November 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is about 5,700 ft, from topographic map. Prior to June 13, 1982, recording gage at site 200 ft upstream at datum 2 ft higher.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--12 years, 19.2 ft3/s, 8.96 in./yr, 13,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 332 ft3/s June 16, 1974, gage height, 5.61 ft from floodmark; minimum, 1.0 ft3/s Mar. 16, 1980, gage height, 3.73 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 80 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)
May 15	0200	114	2.97
May 31	0745	*132	3.06

Minimum discharge, 5.6 ft3/s Oct. 6, gage height 1.79 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	11	15	10	10	10	11	21	98	54	19	12
2	6.3	12	15	10	10	10	12	20	82	48	19	13
3	6.3	12	15	11	10	10	11	20	79	44	19	11
4	6.1	12	14	11	10	9.4	11	20	76	40	18	10
5	5.8	13	12	12	10	9.4	11	20	72	37	18	9.0
6	5.8	13	15	11	10	10	12	18	68	37	17	18
7	5.8	20	15	10	10	10	12	17	64	38	17	13
8	5.8	16	15	10	10	10	13	19	59	34	17	12
9	7.6	14	13	10	10	10	13	28	56	33	16	12
10	8.1	14	13	11	10	10	13	38	52	34	16	10
11	7.6	15	13	11	10	10	13	39	52	31	15	9.6
12	7.6	15	13	11	10	11	13	57	54	29	15	9.0
13	7.4	15	13	10	10	11	13	77	54	28	15	9.0
14	7.4	15	13	10	10	11	13	98	57	27	15	9.0
15	7.6	15	13	10	9.7	13	17	102	61	26	15	9.0
16	7.4	15	10	11	10	11	32	91	70	25	15	8.8
17	7.4	15	9.5	11	10	11	47	74	73	24	18	8.8
18	7.4	15	9.5	10	10	11	47	64	70	24	16	8.6
19	7.4	15	11	10	9.5	11	40	72	70	23	15	8.6
20	7.4	15	11	9.6	10	11	35	91	69	23	14	8.8
21	7.4	14	10	10	10	13	30	91	70	22	14	9.6
22	7.6	11	9.0	10	10	13	32	86	69	22	13	9.0
23	7.9	14	7.8	10	9.7	12	39	82	67	25	13	8.8
24	7.9	15	8.8	10	9.7	12	39	79	67	22	13	8.8
25	7.6	15	10	10	9.7	11	35	66	67	21	14	8.6
26	7.6	13	12	10	9.7	11	30	71	67	20	14	8.6
27	7.6	14	11	10	9.7	11	27	72	68	21	13	8.6
28	7.4	15	10	10	9.7	11	25	79	68	23	12	8.6
29	8.4	12	10	10	10	11	25	95	66	21	12	8.6
30	9.5	11	11	9.7	---	11	22	112	61	19	14	8.6
31	10	---	11	10	---	11	---	118	---	19	13	---
TOTAL	227.4	421	368.6	319.3	287.4	336.8	693	1937	2006	894	474	297.0
MEAN	7.34	14.0	11.9	10.3	9.91	10.9	23.1	62.5	66.9	28.8	15.3	9.90
MAX	10	20	15	12	10	13	47	118	98	54	19	18
MIN	5.8	11	7.8	9.6	9.5	9.4	11	17	52	19	12	8.6
CFSM	.25	.48	.41	.35	.34	.37	.79	2.15	2.30	.99	.53	.34
IN.	.29	.54	.47	.41	.37	.43	.89	2.48	2.56	1.14	.61	.38
AC-FT	451	835	731	633	570	668	1370	3840	3980	1770	940	589

CAL YR 1983 TOTAL 7913.9 MEAN 21.7 MAX 237 MIN 3.4 CFSM .75 IN. 10.12 AC-FT 15700
WTR YR 1984 TOTAL 8261.5 MEAN 22.6 MAX 118 MIN 5.8 CFSM .78 IN. 10.56 AC-FT 16390

13297350 BRUNO CREEK NEAR CLAYTON, ID

LOCATION.--Lat 44°17'56", long 114°26'50", in SW1/4 NE1/4 sec.8, T.11 N., R.17 E., Custer County, Hydrologic unit 17060201, Bureau of Land Management lands, on left bank 0.2 mi upstream from mouth, and 4.5 mi northwest of Clayton.

DRAINAGE AREA.--6.29 mi2.

PERIOD OF RECORD.--April 1971 to current year.

REVISED RECORDS.--WDR ID-76-1: 1974-75(P).

GAGE.--Water-stage recorder and cipolletti weir since 1978. Altitude of gage is 5,840 ft, from topographic map.

REMARKS.--Records good. Flow affected at times by diversions from stream or by return flow from ground-water pumpage at mine about 2 mi upstream.

AVERAGE DISCHARGE.--13 years (water years 1972-84), 1.73 ft3/s, 3.74 in./yr, 1,253 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42 ft3/s May 31, 1972, gage height, 2.45 ft; no flow Dec. 14, 1980, to Feb. 20, 1981, Mar. 4 to Apr. 10, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15 ft3/s May 31, June 1, gage height, 3.06 ft; minimum 0.16 ft3/s Oct. 7, gage height, 2.17 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used May 20 to June 7, June 16-22)

2.15	0.12	5.00	5.0
2.20	.34	2.90	7.7
2.30	.96	3.00	9.8
2.50	2.7	3.10	13
		3.20	16

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	1.0	1.3	1.3	1.2	1.2	1.2	1.8	15	3.7	1.6	1.3
2	.22	1.1	1.3	1.3	1.2	1.2	1.2	1.8	13	3.5	1.5	1.3
3	.20	1.1	1.3	1.4	1.2	1.2	1.2	1.8	12	3.3	1.4	1.3
4	.20	1.1	1.3	1.4	1.3	1.2	1.3	1.8	11	3.0	1.3	1.3
5	.20	1.1	1.3	1.4	1.3	1.2	1.3	1.7	10	2.8	1.3	1.2
6	.20	1.3	1.3	1.3	1.3	1.3	1.4	1.7	9.2	2.8	1.3	1.5
7	.19	1.4	1.3	1.3	1.3	1.3	1.4	1.6	8.2	2.7	1.3	1.3
8	.20	1.3	1.4	1.3	1.3	1.3	1.4	1.7	7.7	2.6	1.2	1.3
9	.29	1.3	1.3	1.3	1.3	1.3	1.3	1.8	7.3	2.5	1.2	1.3
10	.24	1.3	1.3	1.3	1.3	1.3	1.4	1.8	6.7	2.3	1.1	1.3
11	.24	1.4	1.3	1.3	1.2	1.3	1.3	2.0	6.4	2.1	1.3	1.3
12	.24	1.4	1.3	1.3	1.2	1.3	1.3	2.3	6.2	2.0	1.3	1.3
13	.24	1.4	1.3	1.3	1.2	1.3	1.3	3.3	6.2	2.0	1.2	1.3
14	.24	1.3	1.3	1.3	1.3	1.3	1.3	4.5	6.4	1.9	1.1	1.2
15	.24	1.3	1.3	1.0	1.2	1.3	1.5	6.0	7.1	1.8	1.1	1.1
16	.29	1.3	1.0	1.2	1.3	1.3	2.0	6.6	9.0	1.6	1.1	1.0
17	.29	1.3	1.2	1.3	1.3	1.2	2.3	5.6	9.9	1.6	1.2	1.0
18	.24	1.3	1.2	1.2	1.2	1.2	2.1	5.6	10	1.5	1.1	1.0
19	.24	1.3	1.4	1.3	1.1	1.2	2.0	6.2	9.9	1.5	1.1	.99
20	.24	1.3	1.4	1.3	1.2	1.3	1.9	7.3	10	1.5	1.0	.98
21	.24	1.3	1.2	1.2	1.3	1.3	1.9	7.6	9.4	1.5	1.1	1.0
22	.24	.91	1.2	1.2	1.2	1.3	2.1	7.0	8.0	1.7	1.2	1.1
23	.24	1.3	1.2	1.2	1.2	1.3	2.1	7.7	7.0	2.1	1.3	1.1
24	.24	1.3	1.2	1.2	1.2	1.3	2.0	6.9	6.3	1.7	1.3	1.0
25	.24	1.3	1.2	1.2	1.2	1.2	1.9	7.0	5.8	1.5	1.4	1.0
26	.24	1.3	1.2	1.3	1.2	1.2	1.9	7.4	5.3	1.4	1.3	1.0
27	.24	1.3	1.2	1.3	1.2	1.2	1.8	7.4	5.0	2.1	1.3	1.0
28	.50	1.3	1.2	1.3	1.2	1.2	1.8	8.0	4.5	2.1	1.2	1.1
29	.96	1.2	1.3	1.3	1.2	1.2	1.8	9.7	4.2	1.9	1.2	1.2
30	1.0	.90	1.3	1.2	---	1.2	1.8	13	4.0	1.6	1.2	1.2
31	1.0	---	1.3	1.2	---	1.2	---	15	---	1.5	1.4	---
TOTAL	9.80	37.41	39.3	39.4	35.8	38.8	49.2	163.6	240.7	65.8	38.6	34.97
MEAN	.32	1.25	1.27	1.27	1.23	1.25	1.64	5.28	8.02	2.12	1.25	1.17
MAX	1.0	1.4	1.4	1.4	1.3	1.3	2.3	15	15	3.7	1.6	1.5
MIN	.19	.90	1.0	1.0	1.1	1.2	1.2	1.6	4.0	1.4	1.0	.98
AC-FT	19	74	78	78	71	77	98	325	477	131	77	69

CAL YR 1983	TOTAL	340.94	MEAN	.93	MAX	9.0	MIN	.03	AC-FT	676
WTR YR 1984	TOTAL	793.38	MEAN	2.17	MAX	15	MIN	.19	AC-FT	1570

13297355 SQUAW CREEK BELOW BRUNO CREEK, NEAR CLAYTON, ID

LOCATION.--Lat 44°17'26", long 114°28'14", in SW1/4 SW1/4 SW1/4 sec.9, T.11 N., R.17 E., Custer County, Hydrologic Unit 17060201, on left bank 3 mi upstream from mouth and 4.5 mi northwest of Clayton.

DRAINAGE AREA.--79.0 mi2.

PERIOD OF RECORD.--October 1972 to current year.

REVISED RECORDS.--WDR ID-76-1: 1975(P).

GAGE.--Water-stage recorder. Altitude of gage is 5,710 ft, from topographic map. Prior to June 12, 1974, at datum 2.45 ft higher.

REMARKS.--Records good except those for winter period, which are fair.

AVERAGE DISCHARGE.--12 years, 38.1 ft3/s, 6.55 in./yr, 27,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 694 ft3/s June 16, 1974, gage height, 5.55 ft; minimum, 3.3 ft3/s Mar. 11, 1979, gage height, 2.49 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 180 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
May 16	2030	255	4.72	June 17	2145	318	4.76
May 30	2245	*389	*5.25				

Minimum discharge, 11 ft3/s Oct. 25, gage height 2.63 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 22, 24, 26, 27, Nov. 29 to Dec. 2, Dec. 5-7, Dec. 16 to Jan. 17, Jan. 20-25, Jan. 29 to Feb. 6, Feb. 8, 9, 11, 15, 18-20, 23, 26-28, Mar. 4-5)

Oct. 1 to June 5				June 6 to Sept. 30			
2.6	10	3.6	79	3.0	16	3.7	75
2.7	13	4.0	131	3.2	27	4.0	122
3.0	28	5.0	325	3.4	42	4.3	190
3.3	49	6.0	618			4.7	308

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	21	17	16	17	15	18	34	283	124	27	19
2	14	22	19	16	17	16	18	33	238	113	27	19
3	14	22	22	17	17	15	19	33	220	104	25	18
4	14	21	22	17	17	14	21	32	195	95	25	17
5	13	22	16	19	17	15	22	31	176	89	27	17
6	13	23	18	18	16	16	23	30	180	86	24	30
7	13	31	20	17	16	17	23	29	177	83	23	23
8	12	23	22	16	17	17	24	31	167	76	23	21
9	15	20	24	16	17	19	23	48	158	70	22	20
10	15	24	21	18	16	19	23	63	151	65	22	19
11	14	25	20	18	17	19	22	67	151	61	23	18
12	13	24	20	18	16	19	21	103	153	56	22	18
13	13	23	20	17	16	19	21	138	156	52	22	18
14	13	22	20	16	16	19	23	191	165	50	21	17
15	13	22	18	16	17	19	33	171	190	47	20	18
16	13	22	17	16	16	19	54	143	237	44	20	17
17	13	23	15	18	16	19	67	110	267	42	20	17
18	13	22	15	17	17	19	66	104	279	40	19	16
19	12	21	17	16	17	18	59	117	276	38	19	15
20	13	22	17	15	17	20	54	168	286	35	18	17
21	13	19	15	16	16	23	48	169	261	36	18	20
22	13	20	14	17	16	21	50	163	209	38	18	18
23	13	22	13	17	16	21	58	169	187	50	19	17
24	13	22	14	17	16	20	59	166	185	39	19	17
25	13	23	16	17	15	21	55	153	187	34	19	16
26	13	20	19	16	16	20	48	156	187	31	20	17
27	13	21	18	16	16	19	44	156	177	34	19	17
28	14	22	16	16	16	19	41	163	170	36	18	17
29	18	18	16	17	15	18	38	207	167	32	17	17
30	19	15	18	17	---	18	35	272	149	29	17	17
31	20	---	18	17	---	18	---	340	---	28	20	---
TOTAL	431	657	557	520	474	571	1110	3790	5984	1758	653	548
MEAN	13.9	21.9	18.0	16.8	16.3	18.4	37.0	122	199	56.7	21.1	18.3
MAX	20	31	24	19	17	23	67	340	286	124	27	30
MIN	12	15	13	15	15	14	18	29	149	28	17	15
CFSM	.18	.28	.23	.21	.21	.23	.47	1.54	2.52	.72	.27	.23
IN.	.20	.31	.26	.24	.22	.27	.52	1.78	2.82	.83	.31	.26
AC-FT	855	1300	1100	1030	940	1130	2200	7520	11870	3490	1300	1090

CAL YR 1983 TOTAL 16029.7 MEAN 43.9 MAX 397 MIN 7.4 CFSM .56 IN. 7.55 AC-FT 31790
WTR YR 1984 TOTAL 17053 MEAN 46.6 MAX 340 MIN 12 CFSM .59 IN. 8.03 AC-FT 33820

13297450 LITTLE BOULDER CREEK NEAR CLAYTON, ID

LOCATION.--Lat 44°01'57", long 114°26'36", in SW1/4 NE1/4 NW1/4 sec.22, T.9 N., R.17 E., Custer County, Hydrologic Unit 17060201, on right bank 950 ft upstream from mouth and 11 mi south of Clayton.

DRAINAGE AREA.--18.4 mi2.

PERIOD OF RECORD.--June 1970 to September 1982, February 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft, from topographic map.

REMARKS.--Records fair except below 7 ft3/s, which are poor.

AVERAGE DISCHARGE.--13 years (water years 1971-82, 1984), 22.5 ft3/s, 16.61 in./yr, 16,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 570 ft3/s June 1, 1972, gage height, 5.86 ft; maximum gage height, 5.96 ft Jan. 31, 1975 (ice jam); minimum discharge, 2.2 ft3/s Nov. 6, 1977, gage height, 3.34 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 187 ft3/s June 30, gage height, 5.33 ft; minimum daily, 7.1 ft3/s Feb. 7, 8, 11.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Feb. 28 to Apr. 22; stage-discharge relation
affected by ice Nov. 29 to Dec. 1, Dec. 5, 16-23)

3.7	6.9	4.1	19
3.8	8.8	4.3	34
3.9	11	4.6	67
4.0	14	4.9	114
		5.2	177

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	14	10	9.4	7.6	7.5	7.6	10	99	111	49	19
2	15	15	11	9.2	7.5	7.5	7.6	10	74	95	48	16
3	14	14	11	9.6	7.5	7.5	7.3	9.8	63	102	50	17
4	14	13	11	10	7.5	7.5	7.3	11	52	104	46	16
5	12	17	10	9.6	7.3	7.5	7.5	10	45	97	43	15
6	12	18	11	9.4	7.3	7.5	7.3	9.4	42	100	39	17
7	12	22	11	9.4	7.1	7.5	7.3	10	40	116	35	17
8	12	16	12	9.0	7.1	7.5	7.5	11	37	111	33	16
9	24	12	12	8.6	7.3	7.3	7.6	14	34	95	31	15
10	24	19	12	8.6	7.3	7.3	7.5	14	31	77	30	14
11	22	20	12	8.4	7.1	7.3	7.5	17	31	61	31	13
12	20	17	12	8.2	7.3	7.5	7.6	26	31	62	30	13
13	18	18	12	8.4	7.5	7.3	7.3	36	32	61	30	12
14	18	15	11	8.2	7.6	8.0	8.4	54	34	57	28	12
15	17	19	10	7.6	7.8	8.2	11	67	39	52	27	12
16	16	14	10	8.0	8.0	8.0	12	63	49	51	27	12
17	14	14	9.6	7.8	8.4	8.0	16	57	59	51	25	12
18	12	12	9.5	7.5	8.0	8.0	14	50	78	54	24	11
19	12	11	9.5	7.5	7.8	8.0	12	49	80	57	23	11
20	12	12	9.4	7.6	7.8	9.0	11	56	126	57	21	14
21	12	12	8.5	7.6	8.0	9.2	11	55	133	55	20	20
22	12	8.4	8.0	7.6	8.0	8.6	12	52	107	52	19	19
23	12	11	8.7	7.6	8.2	8.8	14	52	97	67	19	22
24	12	14	9.2	8.0	8.0	8.6	12	50	95	77	15	23
25	12	14	9.8	7.8	8.0	8.4	11	48	116	66	18	22
26	11	13	10	8.2	7.8	8.4	12	48	135	57	17	21
27	11	14	9.6	8.2	7.6	8.2	12	46	146	56	17	22
28	12	11	9.2	8.0	7.8	8.0	12	45	154	61	16	21
29	13	10	9.2	7.8	7.6	8.0	11	47	166	60	14	20
30	14	9.2	9.6	7.8	---	7.8	10	76	157	54	15	19
31	12	---	9.8	7.6	---	8.0	---	116	---	50	20	---
TOTAL	449	428.6	317.6	258.2	222.0	245.9	298.3	1219.2	2382	2226	862	495
MEAN	14.5	14.3	10.2	8.33	7.66	7.93	9.94	39.3	79.4	71.8	27.8	16.5
MAX	24	22	12	10	8.4	9.2	16	116	166	116	50	23
MIN	11	8.4	8.0	7.5	7.1	7.3	7.3	9.4	31	50	14	11
CFSM	.79	.78	.55	.45	.42	.43	.54	2.14	4.32	3.90	1.51	.90
IN.	.91	.87	.64	.52	.45	.50	.60	2.46	4.82	4.50	1.74	1.00
AC-FT	891	850	630	512	440	488	592	2420	4720	4420	1710	982

WTR YR 1984 TOTAL 9403.8 MEAN 25.7 MAX 166 MIN 7.1 CFSM 1.40 IN. 19.01 AC-FT 18650

13297453 EAST FORK SALMON RIVER ABOVE BIG BOULDER CREEK NEAR CLAYTON, ID

LOCATION.--Lat 44°06'20", long 114°26'16", in SE1/4NW1/4SE1/4 Sec.15, T.9 N., R.17 E., Custer County, Hydrologic Unit 17060201, on left bank 0.8 mi upstream from mouth of Big Boulder Creek and 10.3 mi south of Clayton.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1980 to September 1984 (discontinued)

INSTRUMENTATION.--Temperature recorder since Nov. 13, 1980.

EXTREMES OF PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 16.0°C Aug. 1, 2, 1981, Aug. 29, 1983; minimum, 0.0°C on many days during winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 15.5°C Aug. 8; minimum observed, 0.0°C on many days during winter months.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	9.5	5.5	7.0	5.5	.5	.0	1.0	.5	2.5	.0	5.5	1.0
2	8.0	5.5	6.5	5.0	.5	.0	1.5	.5	3.0	.0	5.5	.5
3	7.5	5.5	8.0	5.0	1.0	.0	2.5	.5	2.5	.0	5.0	.5
4	10.5	6.0	7.5	5.5	1.5	.0	3.0	1.0	2.5	.0	6.5	2.5
5	10.0	5.0	7.5	5.5	.0	.0	2.5	.5	3.0	.0	5.0	2.5
6	9.5	5.5	6.5	5.0	1.0	.0	2.5	.5	1.5	.0	6.0	2.5
7	10.5	6.5	6.0	3.5	2.5	1.0	1.5	.0	3.0	1.0	5.0	1.5
8	9.5	5.0	4.5	2.5	2.5	.0	1.5	.0	2.5	.0	5.0	2.0
9	9.0	6.5	3.0	1.0	2.5	.0	2.5	.0	2.5	.5	4.0	2.0
10	9.0	6.0	4.5	2.5	3.0	1.5	1.5	.0	3.5	2.0	---	---
11	8.0	4.0	5.5	4.0	2.0	1.5	1.0	.0	3.0	.0	---	---
12	7.5	4.0	4.0	2.5	2.5	1.0	.0	.0	2.0	.0	---	---
13	7.5	5.0	3.0	1.5	2.5	1.0	.0	.0	2.0	.5	---	---
14	6.5	5.0	3.0	1.0	2.5	1.0	.0	.0	3.0	1.0	5.5	2.5
15	7.5	4.0	3.5	1.5	2.0	.0	---	---	3.0	.0	4.5	1.5
16	6.5	3.0	4.0	1.0	.0	.0	---	---	2.0	.0	6.5	2.0
17	7.0	3.5	4.0	1.5	.0	.0	.0	.0	2.5	.5	6.0	2.0
18	7.5	3.5	3.5	2.0	.0	.0	.0	.0	3.0	.0	5.0	.0
19	6.5	2.5	2.0	.5	.0	.0	.0	.0	3.0	.5	5.5	1.5
20	7.5	3.5	2.5	1.0	.0	.0	.0	.0	3.5	.0	8.0	2.5
21	7.5	4.5	2.5	.5	.0	.0	.5	.0	3.0	.0	5.0	3.0
22	8.5	4.0	1.0	.0	.5	.0	1.0	.5	3.0	.0	5.5	1.5
23	7.5	4.5	1.5	.0	.5	.0	2.0	.5	3.5	.0	6.0	.5
24	6.0	2.5	1.5	.5	.0	.0	2.0	.0	4.0	1.0	6.0	2.5
25	6.5	2.5	2.5	1.0	.0	.0	3.5	1.0	4.5	1.5	4.0	.5
26	6.5	2.5	2.5	.5	.0	.0	3.0	.5	5.0	1.0	5.0	.5
27	7.0	2.5	2.5	.5	.0	.0	2.0	.0	4.5	.5	5.0	1.0
28	6.0	3.0	2.0	.0	.5	.0	1.5	.0	3.5	.0	3.5	.0
29	7.5	4.5	1.5	.0	.5	.0	1.0	.0	4.0	.0	4.0	1.0
30	6.5	4.0	.0	.0	.5	.0	2.0	.0	---	---	7.0	1.5
31	7.0	4.5	---	---	.5	.0	1.5	.0	---	---	6.0	1.0
MONTH	10.5	2.5	8.0	.0	3.0	.0	3.5	.0	5.0	.0	8.0	.0

13297453 EAST FORK SALMON RIVER ABOVE BIG BOULDER CREEK NEAR CLAYTON, ID--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.5	1.0	6.5	2.0	8.0	2.5	11.5	5.0	12.5	10.0	13.0	7.5
2	6.5	1.5	9.5	3.0	7.0	3.5	12.0	5.5	13.0	9.0	12.5	7.0
3	7.5	1.0	9.0	3.0	6.0	3.5	12.0	6.0	15.0	9.0	12.5	7.0
4	7.0	1.0	6.0	2.0	7.0	3.5	12.0	6.0	13.5	9.5	13.5	7.5
5	7.0	2.5	8.5	2.5	9.5	3.5	13.0	6.0	15.0	9.5	12.5	8.5
6	5.5	3.0	8.5	1.5	9.0	4.5	11.5	7.5	15.0	9.0	11.5	8.5
7	8.5	2.0	9.5	1.0	7.5	4.0	12.0	7.5	15.0	8.5	10.5	7.0
8	5.0	2.5	10.5	2.5	7.5	4.0	12.0	7.0	15.5	9.0	11.5	6.5
9	7.5	1.5	11.0	3.0	7.0	4.0	9.0	6.0	14.5	9.5	12.5	7.0
10	6.5	2.0	8.0	4.5	5.5	4.0	12.0	6.0	14.0	9.5	12.0	6.5
11	7.0	.5	11.0	5.0	8.5	4.0	13.0	7.0	15.0	10.5	11.0	7.0
12	7.0	1.5	11.5	5.5	9.0	4.0	13.5	7.0	15.0	9.5	11.0	6.0
13	8.0	.5	11.5	4.0	8.5	5.5	13.0	7.0	13.0	10.0	10.5	5.0
14	9.5	1.5	8.5	3.0	10.5	4.5	13.5	7.0	14.5	8.5	10.5	5.0
15	10.0	2.5	6.0	3.5	10.5	5.5	14.0	7.5	14.0	9.5	12.0	7.5
16	10.0	3.0	6.5	2.5	11.0	5.0	14.0	8.0	14.0	11.0	12.5	7.0
17	7.5	3.5	7.5	1.5	10.5	4.5	13.5	8.0	14.5	9.5	12.5	7.0
18	7.5	3.5	10.0	3.0	9.5	3.0	12.5	9.5	15.0	9.5	13.0	7.5
19	6.0	2.5	10.0	3.5	10.5	3.0	14.0	9.0	15.0	9.5	11.0	7.5
20	5.0	3.0	8.0	4.5	8.0	5.0	13.0	9.0	14.0	8.5	12.0	9.0
21	8.5	3.5	9.0	2.5	8.5	4.0	11.5	9.0	14.0	8.0	10.0	7.0
22	10.0	3.0	9.5	2.5	9.5	3.5	12.0	9.5	12.0	8.0	8.5	5.0
23	9.5	3.5	7.0	4.5	11.0	4.0	11.0	8.5	13.5	9.5	8.5	3.5
24	5.5	1.5	8.0	3.5	11.0	5.0	14.0	8.5	13.0	8.5	6.0	3.5
25	3.0	1.5	7.5	3.0	11.5	3.5	15.0	9.0	13.0	9.5	6.5	3.5
26	3.5	1.0	10.0	4.5	11.0	5.0	14.0	9.5	14.0	8.5	8.0	4.0
27	5.0	.5	10.0	3.0	11.5	5.5	13.0	10.5	14.0	8.5	8.5	4.0
28	4.5	.0	11.0	3.5	12.0	5.5	13.0	9.5	14.5	9.5	8.0	3.5
29	5.5	1.5	11.0	3.0	11.0	6.5	14.0	9.5	14.0	9.0	8.5	3.0
30	6.0	1.0	9.5	5.0	10.5	3.5	14.5	8.5	14.0	9.5	7.5	3.5
31	---	---	8.5	3.5	---	---	14.0	9.0	12.5	10.0	---	---
MONTH	10.0	.0	11.5	1.0	12.0	2.5	15.0	5.0	15.5	8.0	13.5	3.0
YEAR	15.5	.0										

BEST COPY AVAILABLE

13297597 HERD CREEK BELOW TRAIL GULCH NEAR CLAYTON, ID

LOCATION.--Lat 44°08'56", long 114°17'22", in SW1/4 SW1/4 SW1/4 sec.36, T.10 N., R.18 E., Custer County, Hydrologic Unit 17060201, on left bank 0.8 mi from mouth, and 9 mi southeast of Clayton.

DRAINAGE AREA.--110 mi2, approximately.

PERIOD OF RECORD.--October 1979 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,790 ft, from topographic map.

REMARKS.--Records fair except those for winter period, which are poor. Small diversions for irrigation above station.

AVERAGE DISCHARGE.--5 years, 52.9 ft3/s, 38,330 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 437 ft3/s May 29, 1983, gage height, 4.20 ft; maximum gage height, 4.89 ft May 29, 1983 (result of log jam); minimum, 8.5 ft3/s Feb. 9, Mar. 16, 1980, Apr. 8, 1981; minimum gage height, 2.05 ft Apr. 6, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 331 ft3/s May 31, gage height, 3.83 ft; minimum daily, 23 ft3/s Apr. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	38	39	35	31	28	25	35	275	166	78	49
2	30	38	39	35	29	28	25	37	225	155	76	48
3	30	39	41	36	31	27	24	38	213	148	74	47
4	30	39	40	37	31	26	23	37	206	143	73	46
5	33	40	37	38	30	26	24	38	191	140	71	45
6	31	39	39	36	30	27	25	37	187	134	69	47
7	31	44	40	34	31	27	25	37	177	132	68	47
8	31	45	40	32	29	27	26	37	170	130	65	46
9	38	44	41	31	31	26	25	40	163	126	64	45
10	39	45	39	32	29	26	28	47	158	121	63	44
11	33	45	39	32	29	27	24	47	158	115	64	45
12	34	45	39	31	30	27	25	55	156	114	62	45
13	36	46	38	30	31	27	24	79	160	111	61	44
14	33	43	38	29	30	27	25	132	165	108	60	44
15	33	43	38	28	28	26	30	185	170	105	59	45
16	31	44	35	29	31	26	38	206	180	103	60	44
17	31	43	35	30	29	26	42	175	184	102	58	43
18	31	43	35	30	29	25	42	160	193	100	55	44
19	31	41	37	29	27	25	38	192	177	99	54	43
20	30	42	37	32	28	26	38	192	173	99	53	44
21	30	40	34	33	30	28	35	215	202	99	53	44
22	30	39	32	33	29	27	36	206	230	98	53	44
23	29	39	29	32	28	25	38	201	224	118	55	43
24	29	42	34	33	29	26	38	203	226	106	54	43
25	28	43	37	33	28	25	36	188	238	99	54	42
26	29	42	41	32	28	25	37	185	232	95	53	42
27	28	41	38	32	27	26	36	190	208	88	51	41
28	28	41	36	31	27	24	35	183	202	92	49	41
29	34	40	37	31	28	25	36	199	179	87	48	41
30	38	36	38	30	---	25	35	256	193	80	48	40
31	38	---	38	30	---	24	---	304	---	78	52	---
TOTAL	990	1249	1160	996	848	810	938	4136	5817	3491	1857	1326
MEAN	31.9	41.6	37.4	32.1	29.2	26.1	31.3	133	194	113	59.9	44.2
MAX	39	46	41	38	31	28	42	304	275	166	78	49
MIN	28	36	29	28	27	24	23	35	156	78	48	40
AC-FT	1960	2480	2300	1980	1680	1610	1860	8200	11540	6920	3680	2630

CAL YR 1983	TOTAL	23433	MEAN	64.2	MAX	412	MIN	14	AC-FT 46480
WTR YR 1984	TOTAL	23618	MEAN	64.5	MAX	304	MIN	23	AC-FT 46850

Note.--No gage-height record Dec. 25 to Apr. 16.

BEST COPY AVAILABLE

13302500 SALMON RIVER AT SALMON, ID

LOCATION.--Lat 45°11'00", long 113°53'40", in NE1/4 NE1/4 sec.6, T.21 N., R.22 E., Lemhi County, Hydrologic Unit 17060203, on left bank 1,000 ft downstream from island, 0.4 mi upstream from Lemhi River, 0.5 mi downstream from highway bridge at Salmon, and at mile 258.9.

DRAINAGE AREA.--3,760 mi2, approximately. Mean altitude, 7,380 ft.

PERIOD OF RECORD.--April 1912 to September 1916, July 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1043: Drainage area. WSP 1317: 1916.

GAGE.--Water-stage recorder. Datum of gage is 3,911.14 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 21, 1929, nonrecording gage at site 700 ft upstream at different datum.

REMARKS.--Records good except during period of ice effect. Diversions above station for irrigation of about 83,800 acres of which about 900 acres are irrigated by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--69 years, 1,993 ft3/s, 1,444,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,700 ft3/s June 17, 1974, gage height, 8.67 ft; maximum gage height, 10.27 ft Dec. 28, 1983 (ice jam); minimum discharge, 242 ft3/s Jan. 5, 1937.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,200 ft3/s June 1, gage height, 6.90 ft; maximum gage height, 10.27 ft Dec. 28 (ice jam); minimum recorded, 809 ft3/s Dec. 24, gage height, 1.27 ft, but may have been less during period of ice effect.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Feb. 25 to June 24;
stage-discharge relation affected by ice Dec. 24 to Feb. 24)

Oct. 1 to June 24				June 25 to Sept. 30			
1.5	955	4.0	4620	2.0	1290	4.0	4200
2.0	1670	5.0	6820	3.0	2520	5.0	6230
3.0	2800	7.0	12300			6.3	9420

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1740	1810	1530	1700	1530	1540	1580	1920	10900	8590	3130	1700
2	1760	1860	1690	1520	1580	1510	1580	1890	9710	7840	3130	1710
3	1680	1900	1770	1500	1500	1500	1570	1890	8640	7270	2950	1680
4	1660	1890	1810	1630	1550	1470	1570	1900	8050	6990	2800	1620
5	1620	1890	1750	1680	1600	1430	1600	1840	7490	6700	2720	1580
6	1600	1970	1610	1670	1550	1430	1660	1810	7060	6400	2620	1600
7	1580	2040	1760	1600	1520	1680	1690	1730	6730	6360	2450	1770
8	1560	2390	1840	1550	1550	1460	1660	1650	6470	6260	2310	1770
9	1560	2120	1800	1530	1500	1480	1680	1680	6190	5950	2220	1730
10	1760	2020	1770	1450	1520	1530	1660	2010	5940	5610	2110	1700
11	1830	2070	1810	1410	1580	1570	1650	2260	5860	5240	2060	1640
12	1740	2280	1810	1530	1570	1610	1610	2370	5800	4940	2090	1600
13	1700	2190	1790	1500	1600	1600	1600	3020	5690	4610	2060	1560
14	1750	2120	1770	1420	1610	1680	1570	4340	5820	4330	2010	1530
15	1760	2040	1790	1350	1660	1740	1600	6710	6020	4080	1980	1530
16	1730	2000	1740	1250	1550	1710	1760	7660	6470	3900	1980	1530
17	1700	2000	1500	1230	1630	1730	2130	8860	7320	3800	1970	1510
18	1680	2030	1440	1300	1640	1680	2480	5840	7820	3660	1970	1510
19	1660	1990	1470	1220	1550	1630	2310	5420	8030	3540	1890	1500
20	1620	1983	1460	1200	1440	1690	2420	5860	8670	3410	1830	1510
21	1620	1960	1320	1280	1520	1830	2270	6900	10200	3370	1780	1550
22	1610	1850	1270	1550	1600	1830	2180	6750	10200	3330	1740	1690
23	1610	1690	1110	1620	1540	1760	2290	6470	9100	3580	1720	1680
24	1620	1820	1000	1580	1510	1730	2470	6670	8510	4330	1790	1710
25	1620	1930	1350	1600	1560	1710	2450	6370	8550	3840	1750	1720
26	1590	1910	1600	1580	1540	1660	2300	6140	8830	3490	1780	1750
27	1590	1840	1830	1570	1490	1650	2170	6250	9120	3450	1740	1760
28	1590	1880	1680	1560	1460	1610	2040	6140	9190	3620	1700	1730
29	1650	1850	1550	1540	1530	1570	1990	6450	9190	3820	1640	1720
30	1740	1700	1600	1520	---	1600	1960	7610	9320	3640	1570	1720
31	1770	---	1700	1510	---	1580	---	9940	---	3350	1610	---
TOTAL	51700	59020	49890	46150	44980	50020	57700	144350	236910	149300	65100	49310
MEAN	1668	1967	1609	1489	1551	1614	1923	4656	7897	4816	2100	1644
MAX	1830	2390	1840	1700	1660	1830	2510	9940	10900	8590	3130	1770
MIN	1560	1690	1000	1200	1440	1430	1570	1650	5690	3330	1570	1500
AC-FT	102500	117100	98960	91540	89220	99210	114400	286300	469900	296100	129100	97810

CAL YR 1983 TOTAL 918240 MEAN 2516 MAX 13000 MIN 254 AC-FT 1821000
WTR YR 1984 TOTAL 1004630 MEAN 2744 MAX 10900 MIN 1000 AC-FT 1992000

13305000 LEMHI RIVER NEAR LEMHI, ID

LOCATION.--Lat 44°56'24", long 113°38'16", in NW1/4 NE1/4 sec.32, T.19 N., R.24 E., Lemhi County, Hydrologic Unit 17060204, on right bank 35 ft upstream from bridge on State Highway 28, 1.4 mi south of Tendoy, 1.8 mi upstream from Agency Creek, 6.2 mi north of Lemhi, and at mile 28.8.
DRAINAGE AREA.--895 mi2, approximately.
PERIOD OF RECORD.--November 1938 to August 1939, April 1955 to September 1963, water years 1964-67 (annual maximum), August 1967 to current year.
REVISED RECORDS.--WSP 1397: 1939.
GAGE.--Water-stage recorder. Altitude of gage is 4,960 ft, from topographic map. Prior to Aug. 23, 1967, at site 1.5 mi upstream at different datum. November 1938 to August 1939, nonrecording gage, Apr. 29, 1955, to Sept. 30, 1963, nonrecording gage and supplemental crest-stage gage, Oct. 1, 1963, to Aug. 24, 1967, crest-stage gage only.
REMARKS.--Records fair. State Fish Hatchery on Hayden Creek several miles upstream since fall 1966 may affect maximums and minimums. Diversions above station for irrigation of about 25,300 acres of which about 200 acres are by withdrawals from ground water (1966 determination).
AVERAGE DISCHARGE.--25 years (1956-63, 1968-84), 290 ft3/s, 210,100 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,430 ft3/s June 21, 1984, gage height, 7.19 ft; minimum, 46 ft3/s Apr. 30, 1977, gage height, 2.53 ft.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,430 ft3/s June 21, gage height, 7.19 ft; minimum daily discharge, 200 ft3/s Dec. 23, but may have been less during period of ice effect.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 30, Dec. 1, 6, 7, 17-31)

3.4	189	4.5	658
3.6	239	5.0	988
4.0	330	6.0	1600
		7.0	2290

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	355	280	260	290	285	309	455	1170	1730	521	268
2	350	365	290	250	275	280	306	440	1120	1570	555	262
3	340	370	299	275	288	275	309	456	994	1470	597	253
4	330	370	302	275	292	270	323	435	949	1340	579	245
5	325	370	309	275	282	272	338	410	943	1280	555	228
6	320	383	290	270	280	278	352	410	903	1220	527	255
7	315	395	300	260	290	275	357	383	874	1280	483	245
8	305	460	302	255	275	280	357	375	839	1230	451	245
9	300	445	296	250	275	287	361	395	789	1080	425	248
10	345	400	299	245	290	300	361	440	762	960	395	245
11	365	420	302	260	268	305	348	431	917	874	380	245
12	350	450	306	245	295	307	338	516	988	817	352	231
13	335	450	302	245	300	315	334	579	971	762	320	217
14	345	425	306	230	310	328	338	852	999	664	309	212
15	350	410	309	210	290	315	404	1300	1070	603	296	220
16	340	405	283	220	300	320	499	1600	1160	561	290	220
17	335	400	265	225	300	313	483	1440	1220	493	271	215
18	335	395	255	230	290	299	493	1230	1230	456	259	217
19	330	380	255	220	270	302	461	1160	1230	435	265	236
20	320	385	255	235	280	334	445	1220	1650	445	262	250
21	320	375	230	285	298	371	430	1230	2100	466	253	293
22	320	327	225	300	288	330	445	1070	2020	338	234	290
23	320	302	200	290	280	323	443	1070	1750	456	242	283
24	320	327	220	292	295	327	430	1030	1640	440	253	296
25	320	343	275	290	290	309	390	949	1640	400	262	306
26	310	334	300	290	288	306	395	949	1700	388	271	316
27	310	334	280	288	268	306	365	874	1680	431	230	334
28	310	348	260	285	280	296	385	803	1780	561	239	366
29	320	330	270	280	290	296	395	789	1930	350	236	371
30	335	310	280	278	---	302	395	888	2010	316	225	361
31	345	---	280	260	---	306	---	1100	---	499	256	---
TOTAL	10165	11363	8625	8093	8337	9412	11601	25281	39048	24555	10813	7974
MEAN	328	379	278	261	287	304	387	816	1302	792	349	266
MAX	365	460	309	300	310	371	499	1600	2100	1730	597	371
MIN	300	302	200	210	268	270	306	375	762	388	225	212
AC-FT	20160	22540	17110	16050	16540	18670	23010	50140	77450	48700	21450	15820

CAL YR 1983 TOTAL 114386 MEAN 313 MAX 820 MIN 129 AC-FT 226900
WTR YR 1984 TOTAL 175269 MEAN 479 MAX 2100 MIN 200 AC-FT 347600

Note.--No gage-height record Oct. 1 to Nov. 17, Jan. 1 to Mar. 15.

13311000 EAST FORK OF SOUTH FORK SALMON RIVER AT STIBNITE, IDAHO

LOCATION.--Lat 44°54'21", long 115°19'42", in SW1/4 SW1/4 SW1/4 sec.11, T.18 N., R.9 E., Valley County, Hydrologic Unit 17060208, Payette National Forest, on right bank 1,200 ft downstream from Meadow Creek.

DRAINAGE AREA.--19.6 mi2.

PERIOD OF RECORD.--July 1928 to November 1941, December 1941 to September 1943 (fragmentary records only), October 1982 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,460 ft, from topographic map. Prior to Sept. 18, 1929, staff gage at site 1,090 ft upstream at different datum. Sept. 18, 1929, to Sept. 7, 1943, at site 1,100 ft upstream at different datum.

REMARKS.--Records good except those for winter period which are fair.

AVERAGE DISCHARGE.--15 years (water years 1929-41, 1983-84), 25.0 ft3/s, 18,110 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 369 ft3/s June 14, 1933, gage height, 4.49 ft, site and datum then in use; minimum recorded, 2 ft3/s Oct. 29, 1936, gage height, 1.71 ft, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 242 ft3/s June 20, 21, gage height, 6.81 ft; minimum discharge, 3.0 ft3/s Mar. 7, gage height, 4.85 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 21-22, 29-30, Dec. 5, 16-18, 20-24, Jan. 14-21, Jan. 29 to Feb. 2, Feb. 11, 15, 18-20, 26, Mar. 4-5, 28-29, Apr. 13)

Oct. 1 to Oct. 19

4.9	14	5.0	21
		5.1	28

Oct. 20 to Sept. 30

4.9	3.0	5.3	25
5.0	7.0	5.5	44
5.1	12	6.0	110
		7.0	226

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	17	16	9.9	7.6	6.6	7.5	16	181	162	33	21
2	20	22	14	9.9	7.2	6.6	7.0	16	161	153	30	18
3	18	19	14	9.9	7.5	6.6	7.0	15	143	146	28	17
4	18	29	14	11	7.5	6.3	7.5	14	141	136	27	16
5	16	24	12	11	7.5	6.4	7.5	14	136	126	28	15
6	15	28	13	11	7.5	6.6	7.5	12	130	121	26	21
7	15	29	13	10	7.5	7.0	8.4	13	126	111	23	18
8	15	24	13	9.9	7.5	6.6	9.0	14	121	101	23	17
9	18	22	13	10	7.5	7.0	7.5	21	113	92	23	17
10	18	22	13	9.4	7.3	7.5	7.5	20	107	83	23	18
11	18	29	12	9.4	7.3	7.5	8.9	21	109	77	22	15
12	16	24	12	9.4	7.5	7.5	7.5	32	110	71	23	14
13	17	23	12	9.4	7.5	7.0	8.0	49	113	66	22	14
14	17	21	12	8.4	7.0	7.5	9.4	76	122	62	21	14
15	15	20	12	7.7	6.8	7.0	12	98	142	59	20	14
16	15	19	10	8.2	7.5	7.0	18	79	170	55	21	13
17	15	20	10	8.1	7.5	7.0	22	68	181	51	20	13
18	15	19	10	8.0	7.0	7.0	25	66	186	50	20	12
19	16	19	11	7.6	6.8	7.0	24	74	190	48	19	12
20	14	18	9.7	8.0	7.0	8.4	22	111	212	45	18	20
21	14	17	9.7	8.3	7.0	8.9	21	108	220	44	18	23
22	14	16	9.6	8.4	7.0	8.0	22	103	187	42	17	17
23	22	17	9.3	8.4	7.0	7.5	23	117	177	42	17	16
24	17	17	10	8.4	7.0	8.0	22	111	184	40	17	16
25	15	17	12	8.9	7.0	8.0	21	102	201	38	17	16
26	14	16	12	8.4	6.7	7.5	19	118	209	37	17	16
27	14	16	10	8.4	7.0	7.0	19	111	208	41	16	15
28	14	16	10	8.4	7.0	6.7	18	118	202	40	15	14
29	14	14	10	8.0	7.0	7.0	17	[illegible]	202	37	15	14
30	15	12	10	7.7	---	7.0	17	193	180	33	15	14
31	16	---	10	7.9	---	7.0	---	210	---	31	32	---
TOTAL	500	606	358.3	277.6	209.2	222.7	431.2	2265	4867	2240	688	478
MEAN	16.1	20.2	11.6	8.95	7.21	7.18	14.4	73.1	162	72.3	21.5	15.9
MAX	22	29	16	11	7.6	8.9	25	210	220	162	33	23
MIN	14	12	9.3	7.6	6.6	6.3	7.0	12	107	31	15	12
AC-FT	992	1200	711	550	415	442	855	4490	9650	4440	1320	948

CAL YR 1983	TOTAL	13722.6	MEAN	37.6	MAX	264	MIN	6.0	AC-FT	27220
WTR YR 1984	TOTAL	13122.8	MEAN	35.9	MAX	220	MIN	6.3	AC-FT	26030

13313000 JOHNSON CREEK AT YELLOW PINE, ID

LOCATION.--Lat 44°57'44", long 115°29'58", in NE1/4 sec.29, T.19 N., R.8 E., Valley County, Hydrologic Unit 17060208, Boise National Forest, on right bank 700 ft upstream from mouth and 0.2 mi southeast of Yellow Pine.
DRAINAGE AREA.--213 mi2. Mean altitude, 7,170 ft.
PERIOD OF RECORD.--August 1928 to current year.
REVISED RECORDS.--WDR ID-83-1: 1982(M).
GAGE.--Water-stage recorder. Datum of gage is 4,635.75 ft National Geodetic Vertical Datum of 1929. Prior to July 19, 1977, at site 385 ft upstream at datum 1.95 ft higher.
REMARKS.--Records good. Small diversion from Johnson Creek basin to Deadwood River basin (see REMARKS for sta 13236000).
AVERAGE DISCHARGE.--56 years, 355 ft3/s, 22.63 in./yr, 257,200 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,230 ft3/s June 17, 1974, gage height, 8.32 ft; minimum, 21 ft3/s Nov. 30, 1936, Nov. 20, 1979.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
May 31	0230	*3800	6.76	July 21	0030	3320	6.36

Minimum discharge, 86 ft3/s Feb. 19, gage height, 2.04 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 22-24)

2.2	101	4.0	1050
2.5	174	5.0	1900
2.9	322	6.0	2910
3.3	554	7.0	4100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	169	179	142	126	116	130	277	2580	1490	249	195
2	161	202	174	140	122	118	131	295	2180	1400	277	153
3	143	235	182	148	124	113	129	282	1910	1330	245	143
4	135	273	171	150	123	111	131	269	1960	1230	231	135
5	128	277	149	160	121	113	138	249	1930	1140	221	130
6	123	269	169	159	122	114	141	256	1880	1080	221	153
7	121	372	169	155	123	113	134	249	1790	1000	211	158
8	119	269	170	153	121	114	152	264	1690	902	202	145
9	133	231	169	145	121	117	145	372	1490	820	192	145
10	158	235	173	144	122	117	148	441	1350	749	186	135
11	148	333	169	145	120	118	143	435	1330	694	190	128
12	138	290	164	144	122	118	146	597	1480	648	174	126
13	135	260	163	140	131	119	142	894	1440	603	171	123
14	150	249	163	122	127	123	149	1250	1530	560	166	121
15	143	238	160	112	119	121	175	1490	1740	524	163	119
16	133	231	139	125	122	121	226	1280	1990	488	161	117
17	128	236	137	124	121	121	313	1020	2080	458	163	114
18	128	225	137	120	113	118	344	956	2080	419	158	112
19	128	211	145	114	110	118	338	1160	2140	430	155	110
20	126	212	130	118	120	126	327	1650	2540	395	150	122
21	123	187	130	131	123	139	308	1640	2870	377	148	181
22	123	172	130	134	119	135	333	1470	2110	355	143	147
23	166	201	125	134	117	131	407	1740	1960	377	150	134
24	166	202	140	136	118	135	401	1650	2030	349	145	132
25	148	197	166	142	118	132	372	1380	2170	317	140	127
26	140	185	163	138	114	132	349	1670	2210	313	140	124
27	139	188	150	138	115	133	322	1730	2140	355	135	122
28	135	186	142	132	115	128	313	1850	2040	344	130	118
29	136	162	144	128	116	131	304	2250	2010	304	126	116
30	138	141	146	124	---	130	286	3020	1740	282	126	114
31	158	---	145	125	---	129	---	3350	---	260	228	---
TOTAL	4337	6838	4793	4222	3487	3806	7075	35460	58310	19993	5487	4006
MEAN	140	228	155	136	120	123	236	1144	1944	645	177	134
MAX	186	372	182	160	131	139	407	3350	2870	1490	277	195
MIN	119	141	123	112	110	111	129	249	1350	260	126	110
CFSM	.66	1.07	.73	.64	.56	.58	1.11	5.37	9.13	3.03	.83	.63
IN.	.76	1.19	.84	.74	.61	.66	1.24	6.19	10.18	3.49	.96	.70
AC-FT	8600	13560	9510	8370	6920	7550	14030	70350	115700	39660	10880	7950

CAL YR 1983 TOTAL 167324 MEAN 458 MAX 3890 MIN 90 CFSM 2.15 IN. 29.22 AC-FT 331900
WTR YR 1984 TOTAL 157820 MEAN 431 MAX 3350 MIN 110 CFSM 2.02 IN. 27.56 AC-FT 313000

13316500 LITTLE SALMON RIVER AT RIGGINS, ID

LOCATION.--Lat 45°24'47", long 116°19'29", SE1/4 SW1/4 sec.15, T.24 N., R.1 E., Idaho County, Hydrologic Unit 17060210, on right bank 250 ft upstream from highway bridge, at mile 0.5, and 0.6 mi southeast of Riggins.

DRAINAGE AREA.--576 mi2. Mean altitude, 5,430 ft.

PERIOD OF RECORD.--February 1951 to February 1953, September 1956 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,760 ft, from topographic map. Prior to Feb. 25, 1966, at datum 5.00 ft higher.

REMARKS.--Records fair. Diversions above station for irrigation of about 15,300 acres, 1966 determination.

AVERAGE DISCHARGE.--31 years (1952-54, 1957-84), 843 ft3/s, 610,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft3/s June 17, 1974; maximum gage height, 12.39 ft June 13, 1953; minimum discharge, 98 ft3/s Dec. 30, 1978, gage height, 1.96 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood about June 1, 1948, reached a discharge of 9,200 ft3/s by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,860 ft3/s May 30, gage height, 8.41 ft; minimum, 128 ft3/s Dec. 23, 24; minimum gage height, 1.74 ft Dec. 23.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 11 to Dec. 5)

1.9	138	4.0	1020
2.5	206	5.0	1780
3.0	463	7.0	3890
		9.0	6800

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	276	366	255	269	330	984	1030	4050	2520	441	445
2	255	276	407	304	265	346	1080	1150	3450	2420	441	358
3	248	304	402	328	297	354	1080	1000	3000	2240	424	330
4	248	362	390	350	262	350	1090	744	2950	2230	424	319
5	248	577	358	358	258	342	1210	753	3050	2150	398	304
6	238	562	350	338	262	346	1440	730	2950	2050	386	300
7	235	577	370	350	262	346	1250	708	2800	1760	366	312
8	245	926	390	288	262	366	1610	703	2700	1570	342	330
9	255	533	402	283	265	386	1530	787	2350	1450	338	326
10	300	463	432	334	269	415	1400	908	2280	1360	319	308
11	290	858	509	308	269	441	1240	914	2150	1300	304	300
12	269	730	509	315	272	481	1120	1270	2300	1270	293	283
13	258	649	459	297	370	509	1070	1640	2250	1190	290	290
14	265	587	445	204	437	770	1060	2300	2450	1070	297	286
15	262	468	441	190	411	964	1250	2210	2700	997	290	279
16	255	518	411	248	411	977	1580	2000	3150	939	258	279
17	248	620	362	206	398	1000	2030	1600	3250	889	286	255
18	248	659	346	173	374	997	2340	1550	3250	858	279	242
19	255	533	346	168	358	870	2340	2300	3600	834	276	238
20	255	509	330	177	362	882	2190	2900	4100	736	269	248
21	252	472	199	255	370	1200	1790	3400	4410	670	265	323
22	248	419	162	286	354	1310	2200	3300	3520	638	262	308
23	252	432	151	279	342	1220	2400	3250	3080	629	262	304
24	342	441	137	300	342	1200	2250	3400	3380	597	273	300
25	312	500	216	346	338	1140	1900	3100	3870	567	265	290
26	283	493	319	323	326	1010	1550	2900	3840	543	262	285
27	269	450	293	308	312	900	1300	3100	3680	587	262	280
28	262	432	300	297	308	871	1150	3100	3510	538	265	258
29	262	428	323	290	315	770	1050	3250	3670	587	258	258
30	262	350	315	283	---	787	900	4100	3000	523	279	258
31	265	---	258	276	---	858	---	5250	---	472	415	---
TOTAL	8134	15414	10698	8713	9340	22738	45424	65507	94660	36184	9816	8896
MEAN	262	514	345	281	322	733	1514	2113	3155	1167	317	297
MAX	342	926	509	358	437	1310	2400	5250	4410	2520	441	445
MIN	235	276	137	168	258	330	900	703	2150	472	258	238
AC-FT	16130	30570	21220	17280	18530	45100	90100	129900	187800	71770	19470	17650

CAL YR 1983	TOTAL	399571	MEAN	1095	MAX	5460	MIN	137	AC-FT	792500
WTR YR 1984	TOTAL	335524	MEAN	917	MAX	5250	MIN	137	AC-FT	665500

Note.--No gage-height record Apr. 22 to May 3, May 16 to June 18, Sept. 24-28.

13317000 SALMON RIVER AT WHITE BIRD, ID

LOCATION.--Lat 45°45'01", long 116°19'23", in NE1/4 NW1/4 SW1/4 sec.22, T.28 N., R.1 E., Idaho County, Hydrologic Unit 17060209, on left bank 0.1 mi upstream from White Bird Creek, 0.6 mi downstream from Canfield-Joseph highway bridge, 1 mi southeast of White Bird, and at mile 53.7. Records include flow of White Bird Creek.

DRAINAGE AREA.--13,550 mi2, approximately, includes that of White Bird Creek. Mean altitude, 6,720 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1910 to September 1917, October 1919 to current year.

REVISED RECORDS.--WSP 753: 1932. WSP 1043: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,412.65 ft National Geodetic Vertical Datum of 1929. Aug. 18, 1910, to Sept. 30, 1917, and Oct. 1, 1919, to Sept. 13, 1920, nonrecording gages at site 600 ft downstream at different datum. Sept. 14, 1920, to Jan. 2, 1931, nonrecording gage on highway bridge 200 ft upstream at datum 10 ft higher.

REMARKS.--Records excellent. Diversions above station for irrigation of about 165,000 acres of which about 1,200 acres are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--72 years, 11,420 ft3/s, 11.45 in./yr, 8,274,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130,000 ft3/s June 17, 1974, gage height, 35.81 ft; minimum, 1,550 ft3/s Dec. 11, 1932, gage height, 10.23 ft, from rating curve extended below 2,200 ft3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 90,200 ft3/s May 31, gage height, 30.93 ft; minimum daily, 3,250 ft3/s Dec 25.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 20-30, Jan. 19-20, 23)

12.0	3000	20.0	24600
13.0	4580	23.0	38400
15.0	8880	27.0	61900
17.0	14400	31.0	90700

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5560	6380	5910	5960	5290	5220	7610	12000	84900	53300	12200	8110
2	6530	6620	5890	6300	5090	5410	7790	12200	74500	42100	11800	7840
3	6800	7070	6210	6090	5110	5780	7860	12600	64500	44300	11900	7140
4	6400	7720	6760	6010	5110	5610	7760	12800	58100	41500	11450	6730
5	6160	8930	6730	6560	5140	5600	7960	12600	57000	39000	10900	6470
6	6020	8680	6140	6950	5150	5410	8750	12300	54900	36900	10600	6250
7	5830	9740	5800	7000	5190	5320	9310	11800	52900	34500	10400	6510
8	5760	9900	6320	6770	5340	5450	9430	11600	50300	32000	9950	6800
9	5680	9720	6860	6620	5340	5690	10100	12800	46600	29600	9510	6960
10	6160	9030	6980	6330	5370	6090	9740	15600	43500	27300	9060	6740
11	6600	8890	7190	6090	5380	6570	9460	17700	43900	25400	8700	6490
12	6730	9870	7230	6030	5410	7010	9000	20000	45900	23900	8510	6260
13	6420	10200	7070	6030	5520	7050	8680	25300	46800	22500	8470	6070
14	6250	9980	6900	5790	6060	7330	8420	37700	48100	21100	8320	5910
15	6450	9210	6790	5100	6210	7910	8850	53000	51400	19800	8050	5820
16	6530	8690	6610	4730	6040	8200	11100	59200	57000	18700	7880	5740
17	6360	8610	6150	4430	5800	8180	15600	53200	62500	17800	7930	5580
18	6190	8680	5300	4240	5720	7960	19900	46000	64700	16900	7900	5590
19	6120	8460	4910	3840	5520	7570	21000	42900	64900	16600	7630	5480
20	6020	8170	4840	3460	5290	7440	20300	47200	67900	15500	7370	5510
21	5910	7980	4330	3300	5110	8650	18200	56800	76700	15100	7150	6210
22	5830	7580	4300	3980	5320	10200	16600	55500	73000	14600	6970	7100
23	6140	6960	4100	4690	5430	9990	16700	55000	65100	14100	6600	6770
24	6730	6820	3600	5360	5370	9590	17300	57500	61900	14100	6750	6550
25	6760	7510	3250	6160	5310	9360	17500	52700	64000	14700	6750	6510
26	6380	7670	4500	7000	5280	8940	16400	49400	66700	13900	6760	6510
27	6140	7410	4650	6690	5250	8530	15000	50400	67500	13400	6700	6510
28	5990	7300	5200	6450	5170	8190	13900	50100	65500	13900	6620	6530
29	5910	7160	5750	6210	5150	7850	13100	53400	64300	14000	6380	6390
30	5970	6670	5400	5920	---	7560	12400	67300	60100	13800	6240	6280
31	6140	---	5770	5560	---	7500	---	86200	---	13000	6620	---
TOTAL	192450	247610	177470	175820	156550	227360	376230	1163400	1805100	739800	262170	193580
MEAN	6208	8254	5725	5672	5398	7334	12540	37530	60170	23860	8457	6453
MAX	6800	10200	7230	7000	6210	10200	21000	86200	84900	53300	12200	8110
MIN	5560	6380	3250	3460	5090	5220	7610	11600	43500	13000	6240	5450
CFSM	.46	.61	.42	.42	.40	.54	.93	2.77	4.44	1.76	.62	.48
IN.	.53	.68	.49	.48	.43	.62	1.03	3.19	4.96	2.03	.72	.53
AC-FT	381700	491100	352000	348700	310500	451000	746300	2308000	3580000	1467000	520000	384000

CAL YR 1983 TOTAL 5003940 MEAN 13710 MAX 89700 MIN 3250 CFSM 1.01 IN. 13.74 AC-FT 9925000
WTR YR 1984 TOTAL 5717540 MEAN 15620 MAX 86200 MIN 3250 CFSM 1.15 IN. 15.70 AC-FT 11341000

13317000 SALMON RIVER AT WHITE BIRD, ID--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1966 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1977 to September 1980 (discontinued).
WATER TEMPERATURES: October 1966 to September 1980 (discontinued).
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 28°C on July 31, Aug. 2, 1977; minimum, 0.0°C on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV 15...	1330	8940	140	8.0	15.0	6.5	11.8	102	K3	K16	62
JAN 24...	1230	5220	172	8.5	7.5	1.0	13.8	102	29	K400	73
MAR 20...	1225	7460	170	8.1	20.0	8.0	11.3	101	K16	150	64
MAY 24...	1500	56600	*67	8.6	11.0	9.0	11.3	103	68	40	24
JUL 24...	1245	14000	121	8.2	32.0	18.0	9.1	101	K8	K7	49
SEP 25...	0950	6620	171	8.0	11.0	11.0	10.8	102	K8	28	71

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV 15...	18	4.0	6.2	18	.4	1.1	63	10	2.1	.30	14
JAN 24...	21	5.0	8.2	19	.4	1.5	78	14	2.5	.40	16
MAR 20...	18	4.6	7.7	20	.4	1.8	70	13	2.6	.40	17
MAY 24...	7.3	1.4	2.9	20	.3	.90	25	6.1	.80	.20	13
JUL 24...	15	2.9	5.2	18	.3	.90	49	7.8	1.5	.30	13
SEP 25...	21	4.4	7.4	18	.4	2.0	76	12	2.4	.40	14

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 15...	90	94	.12	2170	<.10	.010	.70	.020	<.010	<.010
JAN 24...	107	120	.15	1510	.12	.010	.20	.020	.020	.020
MAR 20...	108	110	.15	2180	.10	.080	.40	.040	.020	.040
MAY 24...	52	48	.07	7950	<.10	.070	.40	.060	.030	.010
JUL 24...	65	76	.09	2460	<.10	.040	.20	.010	.010	.010
SEP 25...	117	110	.16	2090	<.10	.030	.20	.010	.010	.020

K Results based on counts outside ideal colony count range.
* Laboratory value

13317000 SALMON RIVER AT WHITEBIRD, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 15...	1	<10	22	<.5	<1	1	<3	2	36	2
MAR 20...	1	120	25	<.5	<1	1	<3	3	37	5
MAY 24...	<1	190	12	1	<1	2	<3	3	79	3
SEP 25...	1	10	23	1	<1	<1	<3	5	17	3

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 15...	10	3	<.1	<10	1	<1	<1	120	<6	23
MAR 20...	7	3	<.1	<10	1	<1	<1	130	<6	20
MAY 24...	4	3	.3	10	2	<1	<1	56	<6	36
SEP 25...	10	4	<.1	<10	1	<1	<1	140	<6	12

DATE	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 15...	10	--
JAN 24...	2	--
MAR 20...	23	93
MAY 31	503	34
JUL 24...	9	66
SEP 25...	6	91

13334300 SNAKE RIVER NEAR ANATONE, WA

LOCATION.--Lat 46°05'50", long 116°58'36", in SE1/4 SE1/4 NE1/4 sec.12, T.7 N., R.46 E., Asotin County, Hydrologic Unit 17060103, on left bank 1.2 mi downstream from Grande Ronde River, 7.8 mi east of Anatone, 22 mi south of Clarkston, and at mile 167.2.

DRAINAGE AREA.--92,960 mi2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1958 to current year.

REVISED RECORDS.--WDR ID-76-1: 1974 and 1975.

GAGE.--Water-stage recorder. Datum of gage is 806.78 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records excellent. Diversions above station for irrigation of about 4,090,000 acres of which about 750,000 acres are by withdrawal from ground water. Flow regulated by many reservoirs above station with a total usable capacity of more than 10,000,000 acre-feet, the most effective of which is Brownlee Reservoir 117.8 mi upstream (see sta 13289700). Diurnal fluctuations caused by Hells Canyon powerplant.

AVERAGE DISCHARGE.--26 years, 37,690 ft3/s, 27,310,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 195,000 ft3/s, June 18, 1974, gage height, 24.45 ft; minimum, 6,010 ft3/s Sept. 2, 1958, gage height, 1.29 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 183,000 ft3/s May 31; gage height 23.39 ft; minimum, 15,500 ft3/s Oct. 1, gage height 4.05 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18200	29600	35300	48900	50700	31600	72300	73100	167000	109000	34500	25000
2	16400	36100	34600	49500	49600	32900	72400	80600	154000	99600	29100	21400
3	18100	36800	34600	49100	48100	30100	72200	75200	141000	94600	33700	24100
4	21600	33800	34100	48800	47000	24500	71900	81000	134000	91000	32200	26300
5	23400	39200	35800	47900	45400	29300	72000	75300	132000	88100	32100	29600
6	23300	36500	35900	48400	44000	37200	74200	91200	131000	85500	33500	25500
7	22800	37200	35300	48700	42900	35300	75100	90100	130000	82300	34100	29600
8	23200	34000	37900	49200	42300	37600	75400	89700	127000	76400	33100	28100
9	21800	35000	37600	49600	44100	40100	77100	90500	123000	70800	33400	23400
10	21200	34700	36000	49300	44100	41800	77900	95100	119000	63800	33100	27300
11	26100	36600	35800	49500	46000	46700	80800	97700	118000	61200	26700	28100
12	26700	38300	34900	49100	43900	48300	79900	99800	122000	57700	25500	27400
13	26700	36700	36900	49900	44200	56500	79400	106000	123000	54900	22200	28400
14	27000	39200	39600	47900	45300	65500	78500	121000	124000	51100	20000	26700
15	27400	37400	40100	46700	45500	70400	79400	139000	128000	44300	20800	25900
16	26600	37500	39800	46000	42100	76000	85000	146000	135000	43900	19900	28700
17	28000	37500	40800	45200	44200	76100	96500	142000	140000	40100	19500	27400
18	31800	37400	40000	43700	41700	79100	101000	133000	140000	42300	21300	24600
19	32400	39500	39800	43200	41100	77500	104000	128000	138000	38100	18800	23900
20	31500	39100	39500	41800	40700	71300	103000	130000	139000	38600	20000	25100
21	30800	38900	39000	41500	40200	66100	104000	140000	148000	32600	22500	23700
22	31700	38600	37900	40900	38800	76100	101000	143000	150000	28800	23400	25300
23	31600	37900	35200	43800	38800	85500	100000	140000	140000	28300	25600	27600
24	32700	37700	34700	44100	38100	86000	101000	146000	135000	32400	26100	27900
25	34100	37200	35000	49900	34600	84700	101000	141000	136000	37000	24000	28800
26	31700	37500	35900	56300	33400	82900	99600	136000	136000	37800	20100	28800
27	34300	37200	36300	55100	33100	81800	96900	138000	134000	36300	21600	31000
28	33400	36800	37700	55500	32200	79400	94800	138000	133000	34900	25000	30800
29	30200	36500	40800	54600	30600	74900	93300	141000	127000	29200	27200	28200
30	25800	36500	43200	52900	---	73600	81600	157000	121000	31000	25300	28300
31	28600	---	43200	51600	---	72600	---	177000	---	35900	27100	---
TOTAL	839100	1106900	1163200	1495500	1210700	1868200	2601200	3680300	4025000	1697200	811700	810200
MEAN	27070	36900	37520	48240	41750	60260	86710	118700	134200	54750	26180	27010
MAX	34300	39500	43200	56300	50700	86000	104000	177000	167000	109000	34500	31000
MIN	16400	29600	34100	40900	30600	24500	71900	73100	118000	28300	18800	21400
AC-FT	1664000	2196000	2307000	2966000	2401000	3706000	5159000	7300000	7984000	3366000	1610000	1607000

CAL YR 1983 TOTAL 19444100 MEAN 53270 MAX 148000 MIN 16400 AC-FT38567000
WTR YR 1984 TOTAL 21309200 MEAN 58220 MAX 177000 MIN 16400 AC-FT42267000

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13334300 SNAKE RIVER NEAR ANATONE, WA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.
PERIOD OF DAILY RECORD.--
  WATER TEMPERATURES: October 1959 to current year.
INSTRUMENTATION.--Temperature recorder since October 1959.
COOPERATION.--Temperature records furnished by U.S. Corps of Engineers.
EXTREMES FOR PERIOD OF DAILY RECORD.--
  WATER TEMPERATURES: Maximum (1959-68, 1970-81), 25.5°C July 15, 1981; minimum, 0.0°C several days during winter months.
EXTREMES FOR CURRENT PERIOD.--October 1983 to May 1984.
  WATER TEMPERATURES: Maximum, 16.0°C Oct. 1, 5; minimum, 0.5°C, Jan. 15-16, 18, 25.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	16.0	15.0	13.0	12.0	7.5	7.0	3.0	2.5	2.0	1.5	4.0	3.5
2	15.0	14.5	13.0	12.5	7.0	6.5	2.5	2.5	1.5	1.5	4.5	4.0
3	15.0	14.5	13.0	13.0	7.0	6.5	3.0	2.5	1.5	1.5	4.5	4.0
4	15.5	15.0	13.0	12.5	6.5	6.0	2.5	2.0	1.5	1.0	5.0	4.0
5	16.0	15.5	13.0	12.5	6.5	6.0	2.0	1.5	1.5	1.0	4.5	4.0
6	15.5	15.0	12.5	12.0	6.5	5.5	2.0	1.5	1.5	1.5	5.0	4.0
7	15.5	14.5	12.0	11.5	6.0	6.0	2.0	1.5	2.0	1.5	5.0	4.5
8	15.0	14.5	11.5	11.0	6.0	6.0	2.0	1.5	2.0	2.0	5.0	5.0
9	15.0	14.5	11.5	10.5	6.5	6.0	1.5	1.5	2.0	2.0	5.5	5.0
10	15.0	14.5	11.0	10.0	6.0	6.0	2.0	1.5	2.0	2.0	6.0	5.5
11	15.0	14.5	11.0	11.0	6.0	6.0	2.0	2.0	2.5	2.0	6.0	5.5
12	14.5	14.5	11.0	10.0	6.0	5.5	2.0	2.0	2.5	2.0	5.5	5.5
13	14.5	14.0	10.0	9.0	6.0	5.0	2.0	2.0	3.0	2.5	5.5	5.0
14	15.0	14.5	10.0	9.5	6.0	6.0	1.5	1.0	3.0	2.5	5.5	5.0
15	14.5	14.0	10.5	10.0	6.0	5.0	1.0	.5	3.0	2.5	5.5	5.0
16	14.0	13.5	10.5	10.0	6.0	5.5	1.0	.5	3.0	3.0	6.0	5.0
17	14.0	13.5	10.5	10.0	5.5	5.0	1.0	1.0	3.0	2.5	6.5	6.0
18	14.0	13.5	10.0	9.5	5.0	4.5	1.0	.5	2.5	2.5	6.5	6.0
19	13.5	13.5	10.0	9.5	4.5	4.5	1.0	1.0	2.5	2.0	7.0	6.5
20	14.0	13.5	9.5	9.5	4.5	3.5	1.0	1.0	2.5	2.5	8.0	7.0
21	14.0	13.5	10.0	9.5	4.0	3.0	1.5	1.0	2.5	2.5	8.0	7.0
22	14.0	13.5	9.5	9.0	3.5	2.0	1.5	1.0	3.0	2.5	7.0	6.5
23	14.0	12.5	9.0	9.0	3.0	3.0	2.0	1.5	3.0	3.0	7.0	7.0
24	13.5	13.0	9.0	9.0	3.0	2.5	2.0	1.5	3.0	3.0	7.0	7.0
25	13.5	13.0	9.0	8.5	3.0	2.5	2.0	.5	3.0	3.0	7.0	6.5
26	13.0	13.0	8.5	8.0	3.0	3.0	2.5	1.5	3.5	3.0	7.0	6.0
27	13.0	13.0	8.5	8.0	3.0	2.5	3.0	2.5	4.0	3.5	7.5	6.5
28	13.0	12.5	8.5	8.0	3.0	3.0	3.0	2.5	4.0	3.5	7.0	6.5
29	12.5	12.5	8.0	7.5	3.0	2.5	2.5	2.5	4.0	3.5	7.5	7.0
30	12.5	11.5	7.5	7.0	3.0	2.5	2.5	2.0	---	---	8.0	7.0
31	13.0	12.0	---	---	2.5	2.5	2.0	1.5	---	---	8.5	7.5
MONTH	16.0	11.5	13.0	7.0	7.5	2.0	3.0	.5	4.0	1.0	8.5	3.5

13334300 SNAKE RIVER NEAR ANATONE, WA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.5	8.0	10.5	9.0								
2	8.5	8.0	10.0	9.5								
3	8.0	7.5	10.5	9.5								
4	8.5	8.0	10.0	9.5								
5	8.5	8.0	10.0	9.0								
6	8.5	8.0	10.0	9.5								
7	8.0	7.5	10.5	9.0								
8	8.0	7.5	11.0	10.0								
9	8.0	7.5	11.0	10.5								
10	8.0	7.5	11.0	10.5								
11	8.0	7.5	11.5	10.5								
12	8.5	7.5	12.0	11.0								
13	9.0	7.0	12.0	11.5								
14	10.0	8.5	12.0	10.5								
15	10.5	9.5	10.5	10.0								
16	10.5	10.0	10.5	9.5								
17	10.0	9.0	11.0	10.0								
18	9.0	8.5	12.0	11.0								
19	8.5	8.5	12.0	11.5								
20	9.0	8.5	12.5	11.5								
21	9.5	9.0	12.0	11.5								
22	10.5	9.5	11.5	11.0								
23	11.0	10.0	12.0	11.5								
24	10.5	9.5	11.5	11.0								
25	10.0	9.0	11.0	10.5								
26	9.0	8.5	12.0	11.0								
27	9.5	8.5	12.5	11.0								
28	9.0	9.0	13.0	12.0								
29	9.5	8.5	13.0	13.0								
30	9.5	9.0	---	---								
31	---	---	---	---								
MONTH	11.0	7.0	13.0	9.0								
YEAR	16.0	.5										

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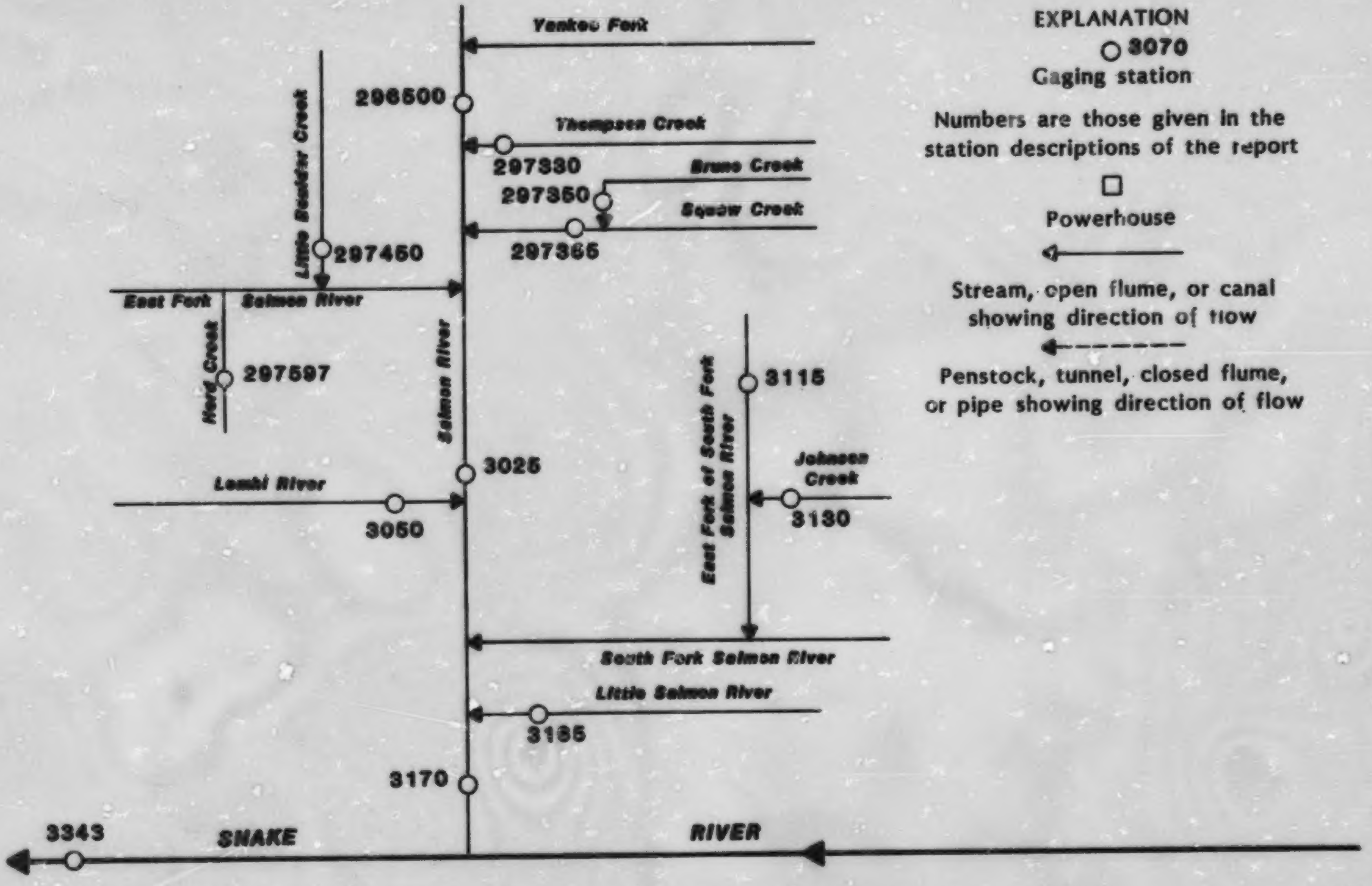
Yankee Fork
296500
Thompson Creek
297330
Bruno Creek
297350
Squaw Creek
297365
Little Boulder Creek
297450
East Fork
Salmon River
Herd Creek
297597
Salmon River
3025
Lemhi River
3050
East Fork of South Fork Salmon River
3115
Johnson Creek
3130
South Fork Salmon River
Little Salmon River
3165
3170
3343
SNAKE
RIVER
EXPLANATION
○ 3070
Gaging station
Numbers are those given in the station descriptions of the report
□
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow

Figure 21. -- Gaging stations in Salmon River basin.

13336500 SELWAY RIVER NEAR LOWELL, ID

LOCATION.--Lat 46°05'12", long 115°30'46", in NW1/4 SE1/4 NE1/4 sec.25, T.32 N., R.7 E., Idaho County, Hydrologic Unit 17060302, Nez Perce National Forest, on right bank 0.2 mi upstream from O'Hara Creek, 7 mi upstream from Lowell, 7.6 mi upstream from confluence with Lochsa River, and 103.2 mi upstream from mouth of Clearwater River.
DRAINAGE AREA.--1,910 mi2, approximately. Mean altitude, 5,640 ft.
PERIOD OF RECORD.--April 1911 to September 1912 (gage heights or fragmentary discharge records only), October 1929 to current year. Monthly discharge only for October 1929, published in WSP 1317.
REVISED RECORDS.--WSP 1043: Drainage area.
GAGE.--Water-stage recorder. Altitude of gage is 1,540 ft, from river-profile map. Apr. 11 to Sept. 2, 1911, nonrecording gage at site 2 mi downstream at different datum. Feb. 7 to Sept. 22, 1912, and Oct. 14, 1929, to Nov. 19, 1930, nonrecording gages at nearby sites at different datum.
REMARKS.--Records good. Small diversions from headwaters.
AVERAGE DISCHARGE.--55 years (1929-84), 3,821 ft3/s, 27.17 in./yr, 2,768,000 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,900 ft3/s May 29, 1948, gage height, 16.04 ft; minimum, probably less than 100 ft3/s Jan. 8, 1937, during period of ice effect.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 18,000 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
May 15	0715	23900	10.64	May 31	0315	*38000	*13.36
May 20	1945	19700	9.75	June 21	0520	24100	10.69

Minimum discharge, 580 ft3/s Dec. 22, gage height 3.02 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 1-7, Dec. 20 to Jan. 1, Jan. 16-25)

3.0	565	6.0	5630
3.5	1000	8.0	12100
4.0	1610	10.0	20800
5.0	3280	13.0	36000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	768	943	810	840	1880	1380	2740	4450	23800	11300	1740	1690
2	748	980	800	929	1790	1490	2710	4800	20400	10500	1730	1410
3	720	1060	800	1220	1690	1550	2680	4930	18400	10100	1620	1040
4	710	1250	810	2260	1610	1520	2710	4680	17900	9250	1540	922
5	748	1580	850	2660	1540	1490	3050	4630	19100	9000	1460	854
6	763	1490	890	3060	1530	1450	3510	4440	18800	8510	1420	929
7	713	2050	950	3340	1580	1460	3490	4270	18600	7670	1340	1130
8	686	1720	1050	2970	1540	1510	3560	4520	17300	6650	1290	1130
9	772	1520	1110	2580	1500	1650	3610	6170	15800	5940	1230	1420
10	1060	1440	1180	2290	1540	1950	3460	6820	14700	5470	1180	1240
11	1160	1640	1210	2160	1500	2320	3310	6720	15900	5120	1140	1030
12	988	2070	1130	2020	1490	2530	3130	9030	16700	4930	1120	949
13	893	1840	1100	1870	1840	2630	3010	11900	18300	4620	1160	889
14	894	1720	1130	1520	2360	3220	3000	18300	19600	4200	1080	848
15	970	1620	1130	1170	2160	3740	3730	22400	21200	3880	1020	818
16	902	1590	1070	980	2040	3540	6070	17600	23000	3610	1020	790
17	865	1640	962	940	1920	3430	9510	14300	21300	3400	1010	763
18	971	1710	786	920	1770	3200	10400	13200	18000	3250	981	740
19	976	1610	752	930	1630	3010	10600	13900	18800	3180	947	715
20	904	1540	700	940	1560	3380	9890	18000	19400	2940	907	923
21	892	1440	660	980	1660	4500	8420	17700	23100	2710	877	2050
22	889	1270	620	1050	1590	4810	7740	14900	18800	2510	846	1740
23	1260	1070	600	1300	1510	4440	8420	16900	16200	2350	837	1510
24	1370	1410	590	1900	1470	4280	7560	16200	16500	2290	820	1410
25	1150	1470	590	3960	1460	3970	6940	14300	18500	2220	811	1240
26	1070	1360	590	3390	1430	3830	6290	14000	19000	2130	793	1170
27	1020	1300	610	2560	1380	3340	5640	15000	18400	2220	767	1170
28	979	1300	630	2310	1370	3270	5180	15800	17100	2290	734	1130
29	975	1180	660	2190	1360	3050	4810	16900	16400	2130	710	1060
30	972	838	690	2090	---	2850	4490	28700	13900	2120	701	1020
31	957	---	740	1970	---	2750	---	33000	---	1880	993	---
TOTAL	28745	43651	26220	59299	47700	87740	159680	400460	555200	148370	33844	33730
MEAN	927	1455	846	1913	1645	2830	5323	12920	18510	4786	1092	1124
MAX	1370	2070	1210	3960	2360	4810	10600	33000	23800	11300	1740	2050
MIN	686	838	590	840	1360	1380	2680	4270	13900	1880	701	715
CFSM	.49	.76	.44	1.00	.86	1.48	2.79	6.76	9.69	2.51	.57	.59
IN.	.56	.85	.51	1.15	.93	1.71	3.11	7.80	10.81	2.89	.66	.66
AC-FT	57020	86580	52010	117600	94610	174000	316700	794300	1101000	294300	67130	66900

CAL YR 1983	TOTAL	1122203	MEAN	3075	MAX	24600	MIN	590	CFSM	1.61	IN.	21.86	AC-FT	2226000
WTR YR 1984	TOTAL	1624639	MEAN	4439	MAX	33000	MIN	590	CFSM	2.32	IN.	31.64	AC-FT	3222000

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13337000 LOCHSA RIVER NEAR LOWELL, ID

LOCATION.--Lat 46°09'02", long 115°35'11", in SW1/4 SW1/4 SE1/4 sec.33, T.33 N., R.7 E., Idaho County, Hydrologic Unit 17060303, Clearwater National Forest, on right bank 0.7 mi upstream from Lowell, 0.9 mi upstream from confluence with Selway River, 1.2 mi downstream from Pete King Creek, and 19 mi east of Kooskia.

DRAINAGE AREA.--1,180 mi2, approximately. Mean altitude, 5,250 ft.

PERIOD OF RECORD.--October 1910 to September 1912, October 1929 to current year. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is 1,452.98 ft National Geodetic Vertical Datum of 1929. Prior to Nov. 21, 1930, nonrecording gages at site 1 mi upstream at different datums.

REMARKS.--Records good except December and January which are fair.

AVERAGE DISCHARGE.--57 years, 2,903 ft3/s, 33.41 in./yr, 2,103,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,100 ft3/s June 8, 1964, gage height, 13.50 ft, from rating curve extended above 17,000 ft3/s; minimum, probably less than 100 ft3/s Jan. 4, 1937, during period of ice effect.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 12,000 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
May 15	0230	14600	8.60	May 31	unknown	*24000	*11.12
May 20	1715	14400	8.56	June 21	0330	14400	8.56

Minimum daily discharge, 410 ft3/s Dec. 24-26.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 2-7, Dec. 14 to Jan. 1;
shifting-control method used Mar. 21-24)

1.9	365	4.0	2740
2.0	420	6.0	6850
2.5	805	8.0	12500
3.0	1340	11.0	23400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	499	607	667	580	1400	1100	2060	3730	14200	5590	945	845
2	506	653	640	966	1350	1220	2050	4360	12100	5220	934	735
3	492	713	620	1740	1280	1230	2010	4440	11000	4910	864	615
4	492	1060	640	2000	1220	1180	2050	4170	10900	4620	814	554
5	601	1290	650	2300	1180	1150	2320	4060	11400	4250	773	553
6	630	1160	660	2500	1150	1110	2790	3870	11200	3760	743	540
7	548	1620	670	2650	1180	1120	2640	3730	11400	3350	720	760
8	513	1410	765	2200	1140	1160	2790	3960	10600	3080	722	611
9	555	1180	798	2000	1120	1290	2840	5260	9620	2880	691	853
10	706	1060	995	1800	1140	1330	2770	5500	9280	2710	652	740
11	796	1610	1020	1650	1130	1970	2660	5610	10200	2530	664	700
12	698	1940	946	1450	1120	2050	2480	7700	10400	2340	673	520
13	622	1630	907	1350	1400	2140	2400	9950	11300	2180	638	580
14	600	1470	941	1150	1780	2960	2450	12300	12400	2050	606	550
15	615	1350	956	800	1640	3190	3130	13600	13200	1940	606	520
16	600	1330	896	750	1530	2820	4720	10900	13500	1860	600	500
17	578	1690	790	710	1450	2660	6920	9280	12900	1740	600	450
18	656	1530	614	730	1380	2420	7700	9200	11400	1630	610	470
19	660	1440	540	730	1240	2280	7950	10200	10600	1510	605	459
20	615	1300	480	710	1210	2630	7580	13800	11100	1420	590	479
21	594	1200	450	730	1320	3530	6480	12200	13700	1380	550	1420
22	607	1030	430	780	1280	3640	6050	10200	10300	1330	564	1250
23	903	863	420	950	1210	3350	6720	11900	9200	1290	556	1120
24	921	1060	410	1300	1190	3280	6050	10400	9650	1360	545	1000
25	778	1220	410	3100	1160	3010	5610	9100	10300	1290	539	930
26	711	1110	410	3000	1140	2930	4900	9000	9840	1340	524	890
27	673	1050	420	2100	1090	2660	4620	9800	9140	1290	500	790
28	638	1040	440	1800	1080	2450	4130	10200	8370	1130	490	730
29	632	938	460	1650	1090	2280	3850	10700	7340	1090	476	660
30	626	694	480	1350	---	2140	3650	18400	6040	1020	466	630
31	618	---	520	1450	---	2060	---	20000	---	951	541	---
TOTAL	19683	35853	20035	47136	36630	68540	123970	274320	322930	72941	19841	22331
MEAN	635	1195	646	1521	1263	2211	4132	8855	10770	2353	640	744
MAX	921	1940	1020	3100	1780	3640	7950	20000	14200	5590	945	1420
MIN	492	607	410	580	1080	1100	2010	3730	6040	951	466	459
CFSM	.54	1.01	.55	1.29	1.07	1.87	3.50	7.50	9.13	1.99	.54	.63
IN.	.62	1.13	.63	1.49	1.15	2.16	3.91	8.65	10.18	2.30	.63	.70
AC-FT	39040	71110	39740	93490	72660	135900	245900	544500	640600	144700	39350	44290

```
CAL YR 1983   TOTAL   903197   MEAN  2475  MAX  17500  MIN  410  CFSM  2.10  IN.  28.47  AC-FT 1791000
WTR YR 1984   TOTAL  1064460   MEAN  2908  MAX  20000  MIN  410  CFSM  2.46  IN.  33.56  AC-FT 2111000
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Note.--No gage-height record Jan. 4 to Feb. 14, May 25 to June 19, Aug. 14-21, Aug. 28 to Sept. 30.

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13337177 SOUTH FORK RED RIVER AT RED RIVER RANGER STATION, ID

LOCATION.--Lat 45°42'28", long 115°20'30", in SW1/4NW1/4, sec.4, T.27 N., R.9 E., Hydrologic Unit 17060305, in Idaho County. Temperature recorder is on left bank just upstream from Red River Ranger Station, 950 ft upstream from bridge across the South Fork, 1,200 ft upstream from Red River, and approximately 9.2 mi southeast of Elk City.
DRAINAGE AREA.--Not determined.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1984 to September 1984.
INSTRUMENTATION.--Temperature recorder since July 1984.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 19.5°C Aug. 12, 1984; minimum, 1.0°C Sept.28-29, 1984.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							---	---	15.5	12.5	---	---
2							---	---	18.0	11.5	---	---
3							---	---	18.5	11.0	---	---
4							---	---	17.5	11.5	---	---
5							---	---	17.0	11.5	---	---
6							---	---	17.0	11.0	---	---
7							---	---	17.5	10.0	---	---
8							---	---	18.5	9.5	---	---
9							---	---	19.0	10.0	---	---
10							---	---	15.5	10.5	---	---
11							15.0	5.5	18.5	12.0	---	---
12							15.5	10.0	19.5	11.5	---	---
13							15.0	8.5	18.5	11.0	---	---
14							15.5	8.5	18.0	9.5	---	---
15							16.0	9.0	18.5	10.5	---	---
16							17.0	9.5	16.5	11.5	---	---
17							17.0	9.5	18.5	10.5	---	---
18							16.0	11.5	18.5	11.5	---	---
19							17.0	11.0	17.5	10.5	---	---
20							15.5	10.5	16.0	7.5	---	---
21							16.0	9.5	16.5	7.0	---	---
22							16.0	9.5	13.5	8.0	---	---
23							17.0	12.5	16.5	9.5	---	---
24							17.5	11.5	17.5	10.0	---	---
25							18.0	12.0	15.0	9.5	5.5	1.5
26							19.0	12.5	17.5	9.5	6.0	3.0
27							19.5	13.5	17.5	10.0	8.0	3.5
28							16.5	13.0	17.5	11.0	7.0	1.0
29							16.0	12.5	11.5	8.5	7.5	1.0
30							17.5	10.0	---	---	8.0	1.5
31							18.0	10.5	---	---	---	---
MONTH							19.5	5.5	19.5	7.0	8.0	1.0
YEAR	19.5	1.0										

13337180 RED RIVER BELOW SOUTH FORK NEAR RANGER STATION, ID

LOCATION.--Lat 45°42'13", long 115°20'44", in NW1/4NW1/4, sec.5, T.27 N., R.9 E., Hydrologic Unit 17060305, in Idaho County. Temperature recorder on right bank 10 ft south of Red River Road, 600 ft downstream from the mouth of the South Fork Red River, and approximately 9 mi southeast of Elk City.
DRAINAGE AREA.--Not determined.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1984 to September 1984.
INSTRUMENTATION.--Temperature recorder since July 1984.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 21.0°C July 31, 1984; minimum, 2.0°C Sept. 28-29, 1984.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							---	---	18.0	14.0	16.0	9.5
2							---	---	19.0	13.0	16.0	8.0
3							---	---	19.0	12.0	15.5	9.0
4							---	---	20.0	13.5	17.0	9.0
5							---	---	19.0	13.5	16.5	10.5
6							---	---	19.0	12.5	13.5	9.5
7							---	---	20.0	11.5	12.5	8.0
8							---	---	20.5	11.5	12.5	9.0
9							---	---	20.0	12.0	14.5	9.0
10							---	---	18.0	12.5	14.0	7.5
11							18.5	11.5	19.0	13.5	12.0	9.5
12							19.0	11.0	20.5	12.5	12.5	6.5
13							18.5	10.0	20.5	12.5	12.0	5.5
14							19.0	10.0	19.5	11.5	12.0	4.5
15							19.5	10.0	20.0	12.5	14.0	7.0
16							20.0	10.5	18.0	13.5	14.5	7.0
17							20.5	11.0	19.0	12.5	15.5	8.0
18							17.0	12.5	20.5	13.0	15.0	8.5
19							19.5	11.5	20.0	13.0	15.5	9.0
20							17.0	11.5	18.0	9.5	13.5	10.5
21							18.0	10.0	18.5	9.0	10.5	7.5
22							19.0	11.0	15.5	10.0	8.5	5.5
23							17.5	13.5	18.0	11.5	6.5	4.5
24							20.0	12.5	19.0	11.0	6.0	3.5
25							19.0	12.5	17.5	10.5	6.0	2.0
26							19.5	13.5	18.0	11.0	7.0	4.0
27							21.0	14.5	18.5	11.0	9.0	4.5
28							19.5	15.0	18.5	12.5	7.5	2.0
29							18.0	14.5	18.5	10.0	8.0	2.0
30							20.5	12.0	13.5	11.0	7.5	2.5
31							21.0	12.0	12.5	10.5	---	---
MONTH							21.0	10.0	20.5	9.0	17.0	2.0
YEAR	21.0	2.0										

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13337510 CROOKED RIVER NEAR OROGRANDE, ID

LOCATION.--Lat 45°42'57", long 115°32'21", in NW1/4SE1/4, sec. 31, T.28 N., R.7 E., Hydrologic Unit 17060305, in Idaho County. Temperature recorder is on left bank 300 ft southeast of Crooked River Road, 400 ft upstream from Five Mile Creek, and 0.75 mi north of Orogrande.
DRAINAGE AREA.--Not determined.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1984 to September 1984.
INSTRUMENTATION.--Temperature recorder since July 1984.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 17.0° C Aug. 12, 15, 1984; minimum, 2.5°C Sept. 25, 28-29, 1984.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							---	---	14.5	11.0	12.5	8.5
2							---	---	14.5	11.0	14.0	7.0
3							---	---	15.0	10.0	13.5	7.5
4							---	---	15.5	10.5	15.0	8.0
5							---	---	16.0	11.0	15.0	9.5
6							---	---	14.5	10.0	12.5	7.5
7							---	---	15.0	9.0	11.0	7.0
8							---	---	15.5	9.0	11.5	8.0
9							---	---	15.5	9.5	13.5	8.5
10							12.0	9.0	15.5	10.5	12.5	7.5
11							13.0	7.5	16.0	11.5	10.0	7.5
12							13.0	8.5	17.0	10.5	10.5	6.0
13							12.5	7.5	16.0	10.0	11.0	5.0
14							13.0	7.5	15.5	9.0	11.0	4.5
15							13.5	7.5	17.0	10.0	12.5	6.5
16							14.0	8.5	14.5	11.0	13.0	7.0
17							14.5	8.5	15.0	10.0	13.5	7.0
18							13.0	10.0	16.5	11.0	13.0	8.0
19							13.0	9.5	15.5	10.0	14.0	9.0
20							13.5	9.0	14.0	7.5	12.5	9.5
21							13.0	8.0	14.5	7.0	9.5	6.5
22							13.5	7.5	11.5	8.0	7.5	5.5
23							12.5	10.0	16.0	9.5	6.0	5.0
24							14.0	9.5	15.5	9.5	7.0	3.5
25							13.5	10.0	13.5	9.0	6.5	2.5
26							16.0	11.5	15.0	9.0	7.0	4.0
27							16.5	11.5	15.5	9.5	9.0	4.5
28							15.0	12.0	15.0	10.0	8.0	2.5
29							14.0	10.5	14.5	8.0	6.0	2.5
30							14.5	9.5	11.5	9.5	6.5	3.0
31							15.5	9.5	11.0	10.0	---	---
MONTH							16.5	7.5	17.0	7.0	15.0	2.5
YEAR	17.0	2.5										

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13337520 CROOKED RIVER NEAR MOUTH NEAR ELK CITY, ID

LOCATION.--Lat 45°49'19", long 115°31'37", in SW1/4NW1/4, sec.25, T.29 N., R.7 E., Hydrologic Unit 17060305, in Idaho County. Temperature recorder is on right bank 600 ft west of Crooked River Road, 1,000 ft upstream from mouth and approximately 5.5 mi west of Elk City.
DRAINAGE AREA.--Not determined.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1984 to September 1984
INSTRUMENTATION.--Temperature recorder since July 1984.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 21.0°C July 27, 1984; minimum, 4.5°C Sept. 29, 1984.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							---	---	18.0	14.0	16.5	11.0
2							---	---	18.0	13.5	16.0	10.5
3							---	---	19.0	12.0	15.0	10.5
4							---	---	19.0	14.0	17.5	11.0
5							---	---	19.0	14.0	16.5	11.5
6							---	---	16.0	13.5	15.0	11.5
7							---	---	19.0	12.5	14.0	10.0
8							---	---	19.0	12.0	12.5	10.5
9							---	---	20.0	12.5	15.5	11.0
10							---	---	17.0	13.5	15.5	10.5
11							---	---	19.0	14.0	13.5	11.0
12							---	---	19.0	13.5	14.0	9.5
13							16.5	10.5	19.0	13.5	13.5	8.0
14							17.0	9.5	19.0	12.5	14.0	7.0
15							18.0	9.5	20.0	13.5	14.5	9.0
16							18.0	10.0	18.0	14.5	14.5	9.0
17							18.5	10.5	19.0	12.5	15.5	9.5
18							16.0	12.0	20.0	14.0	15.5	10.0
19							19.0	11.5	19.0	14.0	15.5	11.0
20							15.5	11.0	18.5	11.0	14.0	11.5
21							17.5	10.0	18.5	10.5	11.5	9.5
22							18.5	10.0	15.0	11.5	9.5	8.0
23							16.5	12.5	18.5	12.0	8.0	7.0
24							19.0	12.0	19.0	11.5	8.5	6.0
25							19.5	12.5	16.0	12.0	8.5	5.0
26							18.5	14.0	18.0	12.0	8.0	6.0
27							21.0	13.5	19.0	12.0	10.0	7.0
28							18.5	14.5	18.5	13.0	9.5	5.0
29							18.5	14.0	18.5	11.5	9.5	4.5
30							19.5	12.5	15.0	11.5	10.0	5.0
31							20.0	12.0	13.5	12.0	---	---
MONTH							21.0	9.5	20.0	10.5	17.5	4.5
YEAR	21.0	4.5										

13338500 SOUTH FORK CLEARWATER RIVER AT STITES, ID

LOCATION.--Lat 46°05'12", long 115°58'32", in NE1/4 SE1/4 NE1/4 sec.29, T.32 N., R.4 E., Idaho County, Hydrologic Unit 17060305, on left bank at Stites, 0.4 mi upstream from county road bridge, 0.4 mi downstream from Cottonwood Creek, and at mile 4.0.
DRAINAGE AREA.--1,150 mi2, approximately.
PERIOD OF RECORD.--October 1910 to April 1912, October 1964 to current year. Published as "at Kooskia" 1910-12.
REVISED RECORDS.--WSP 1317: Drainage area.
GAGE.--Water-stage recorder. Altitude of gage is 1,300 ft, from topographic map. October 1910 to April 1912, nonrecording gage 3.6 mi downstream at different datum.
REMARKS.--Records good. No regulation above station.
AVERAGE DISCHARGE.--21 years (1911, 1965-84), 1,124 ft3/s, 13.27 in./yr, 814,300 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 10,700 ft3/s May 29, 1912, gage height, 6.00 ft, site and datum then in use; minimum, 72 ft3/s Nov. 29, 1976, gage height, 2.41 ft; minimum gage height, 2.40 ft Dec. 18, 1965 (ice affected).
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 8, 1964, reached a stage of 10.3 ft, present site and datum, discharge, 17,500 ft3/s.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,300 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Mar. 21	0930	4720	5.90	May 23	1815	8550	7.67
Apr. 8	1800	4380	5.75	May 31	0300	*9300	*7.95
Apr. 19	0415	5770	6.35	June 7	2400	7590	7.30
May 15	0430	8020	7.47				

Minimum discharge, 134 ft3/s Dec. 22, gage height 2.66 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 1-8, 19-21, Dec. 23 to Jan. 1, Jan. 16-22; shifting-control method used May 12 to July 1)

2.7	147	4.5	1880
3.1	360	5.0	2720
3.5	670	6.0	4780
4.0	1190	7.0	7210
		8.0	9840

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	247	190	320	709	706	1800	2050	6360	2520	521	450
2	217	255	190	502	667	810	1960	2400	5430	2350	498	319
3	212	263	195	682	637	810	1850	2710	4820	2220	545	266
4	207	295	200	1750	604	751	1760	2730	4430	2050	490	244
5	202	422	205	1690	573	697	1900	2750	5020	1940	452	231
6	280	365	220	1520	568	688	3360	2690	4960	1840	505	259
7	346	434	240	1300	586	679	2640	2560	5940	1680	452	317
8	283	393	260	1180	576	706	3430	2590	6480	1530	423	275
9	247	362	296	957	556	800	2840	3620	5550	1410	395	332
10	236	315	314	814	584	981	2750	3910	5190	1310	367	287
11	370	331	352	738	576	1360	2520	3530	6280	1230	354	251
12	280	438	367	696	556	1330	2180	4340	6360	1170	348	238
13	230	419	344	662	724	1360	2000	4960	6240	1100	330	231
14	230	373	356	493	984	2680	1920	6540	5860	1040	324	223
15	240	340	399	401	798	2200	2370	7640	5620	970	312	216
16	230	336	344	375	777	2280	3930	6880	5790	915	306	212
17	210	336	291	370	733	2250	5100	5650	5240	860	324	205
18	257	362	279	370	641	1880	5600	5100	4800	810	318	200
19	277	357	240	375	569	1620	5500	5100	4560	860	300	195
20	253	329	210	395	594	2130	5190	6130	4470	770	295	201
21	241	316	180	405	662	3760	4300	5980	5790	724	279	562
22	226	276	164	440	670	3260	3930	5240	4540	679	267	403
23	339	203	150	566	628	2770	4690	6780	3930	644	254	336
24	430	202	150	771	619	3430	4270	6730	3780	636	246	329
25	323	356	155	2230	662	2920	3740	5790	3930	644	239	322
26	284	348	160	1870	679	2560	3280	5740	3800	602	234	302
27	266	314	165	1510	688	2340	2880	5740	3800	619	229	297
28	254	324	180	1180	697	2100	2620	5460	3650	662	220	286
29	249	318	195	977	697	2150	2400	5860	3320	706	213	263
30	249	199	210	851	---	1960	2230	7310	2900	662	216	251
31	249	---	235	754	---	1850	---	8130	---	585	290	---
TOTAL	8149	9888	7436	27144	19014	55818	94340	152940	148640	35738	10546	8503
MEAN	263	330	240	876	656	1801	3145	4934	4955	1153	340	283
MAX	430	435	399	2230	984	3760	5600	8130	6480	2520	545	562
MIN	202	199	150	320	556	679	1760	2050	2900	585	213	195
CFSM	.23	.29	.21	.76	.57	1.57	2.73	4.29	4.31	1.00	.30	.25
IN.	.26	.32	.24	.88	.62	1.81	3.05	4.95	4.81	1.16	.34	.28
AC-FT	16160	19610	14750	53840	37710	110700	187100	303400	294800	70890	20920	16870

CAL YR 1983 TOTAL 306591 MEAN 840 MAX 3800 MIN 150 CFSM .73 IN. 9.92 AC-FT 608100
WTR YR 1984 TOTAL 578156 MEAN 1580 MAX 8130 MIN 150 CFSM 1.37 IN. 18.70 AC-FT 1147000

13339500 LOLO CREEK NEAR GREER, ID

LOCATION.--Lat 46°22'20", long 116°09'40", in NE1/4 SE1/4 SE1/4 sec.14, T.35 N., R.2 E., Idaho County, Hydrologic Unit 17060306, on left bank upstream side of county road bridge 2,000 ft upstream from mouth, 1.35 mi southeast of Greer, and 8.5 mi southeast of Orofino.

DRAINAGE AREA.--243 mi2.

PERIOD OF RECORD.--October 1979 to current year. December 1911 to December 1912, published in WSP 332. Partial-record station 1928, 1929, and 1964. Published in Miscellaneous Streamflow Measurements in Idaho, 1894-1967.

GAGE.--Water-stage recorder. Altitude of gage 1,120 ft, from topographic map.

REMARKS.--Records good except December and January, which are fair.

AVERAGE DISCHARGE.--5 years, 351 ft3/s, 19.62 in./yr, 254,300 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 3,920 ft3/s May 26, 1980, gage height 16.14 ft. Minimum, 18 ft3/s Nov. 14, 30, 1979, gage height 7.43 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Dec. 12	----	ice jam	12.03	Apr. 8	1130	1330	12.32
Mar. 4	1930	*2290	*13.98	Apr. 26	1600	1830	13.29
Mar. 22	0230	2000	13.54	May 16	1300	1540	12.78

Minimum discharge, 33 ft3/s Aug. 28, gage height 7.68 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 1-6,
Dec. 19 to Jan. 4, Jan. 16-23; shifting-control method used June 13-21)

7.7	33	9.5	305
8.0	57	10.5	585
8.4	99	11.5	970
8.9	178	12.5	1440
		13.5	1990

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	66	91	90	319	233	759	702	894	302	65	154
2	42	79	90	120	283	376	755	822	806	269	63	96
3	41	102	92	190	258	407	755	894	742	252	61	66
4	41	199	95	300	240	353	753	894	706	233	58	56
5	44	295	98	349	221	331	803	846	762	217	57	51
6	49	153	100	521	213	308	1190	874	794	201	98	61
7	45	271	112	456	222	322	1060	518	834	186	92	99
8	42	182	115	405	218	350	1060	782	930	174	70	81
9	46	146	124	346	213	421	1110	914	914	165	63	124
10	94	126	169	301	213	611	1040	942	858	155	58	90
11	85	176	273	276	206	1150	998	890	858	146	57	70
12	64	330	240	253	199	1090	905	1120	790	137	56	63
13	55	248	211	238	318	1010	858	1090	762	130	53	59
14	52	229	199	179	554	1830	854	1170	714	126	49	55
15	51	207	206	126	473	1840	969	1360	673	118	48	52
16	49	219	192	110	435	1370	1220	1520	644	112	48	51
17	48	345	153	105	386	1190	1420	1400	596	107	46	49
18	56	355	103	100	320	1050	1330	1220	544	100	44	48
19	68	315	95	98	282	966	1420	1150	513	98	43	46
20	59	248	88	96	298	1200	1700	1200	505	94	41	45
21	54	209	86	100	289	1730	1560	1140	746	90	39	130
22	54	174	82	110	262	1760	1310	1020	710	88	38	100
23	108	155	90	120	245	1360	1390	1190	574	85	38	89
24	127	150	79	180	243	1350	1240	1240	514	82	38	104
25	91	215	78	439	235	1170	1060	1060	478	80	37	88
26	79	199	79	639	229	1070	929	1030	442	76	37	74
27	70	174	80	582	223	958	823	1050	415	74	35	68
28	66	182	81	534	231	842	762	946	388	72	35	66
29	66	164	82	457	231	800	702	938	352	70	33	62
30	66	103	84	393	---	766	659	1030	330	68	35	59
31	65	---	96	349	---	754	---	1070	---	66	59	---
TOTAL	1919	6016	3743	8762	8061	28968	31374	32322	19798	4173	1594	2254
MEAN	61.9	201	121	283	278	934	1046	1043	660	135	51.4	75.1
MAX	127	355	273	639	554	1840	1700	1520	930	302	98	154
MIN	41	66	78	90	199	233	659	702	330	66	33	45
AC-FT	3810	11930	7420	17380	15990	57460	62230	64110	39250	8280	3160	4470

CAL YR 1983	TOTAL	93065	MEAN	255	MAX	920	MIN	38	AC-FT	184600
WTR YR 1984	TOTAL	148974	MEAN	407	MAX	1840	MIN	33	AC-FT	295500

13340000 CLEARWATER RIVER AT OROFINO, ID

LOCATION.--Lat 46°28'43", long 116°15'23", in SW1/4 SE1/4 NW1/4 sec.7, T.36 N., R.2 E., Clearwater County, Hydrologic Unit 17060306, on right bank 56 ft upstream from State Highway 7 bridge at Orofino and at mile 44.6.

DRAINAGE AREA.--5,580 mi2, approximately.

PERIOD OF RECORD.--October 1930 to September 1938, October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 990.80 ft National Geodetic Vertical Datum of 1929 (levels by Idaho Department of Highways). Prior to Sept. 30, 1938, nonrecording gage at site 0.1 mi downstream at different datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--28 years, 9,064 ft3/s, 22.06 in./yr, 6,567,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 87,300 ft3/s June 2, 1972, gage height, 18.84 ft, present datum; minimum observed, probably less than 250 ft3/s Jan. 9, 1937, during period of ice effect; minimum gage height, 1.96 ft Nov. 30, 1979.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 8, 1964, reached a stage of 20.32 ft present site and datum, discharge, 99,700 ft3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Jan. 25	1530	17500	8.26	Apr. 19	0945	30600	10.79
Mar. 15	0015	19000	8.58	May 15	1300	52300	14.14
Mar. 22	0345	22000	9.19	May 31	1000	*71200	*16.71
Apr. 8	2330	16200	7.93	June 21	1400	48800	13.65

Minimum discharge, 938 ft3/s Dec. 22, gage height, 2.39 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 3-8, Dec. 24 to Jan. 2, Jan. 17-18, 21-22;
shifting-control method used Dec. 9 to Feb. 24)

2.4	1070	6.5	10900
3.0	1900	8.0	16800
4.0	3760	10.0	26600
5.0	6180	13.0	44700
		16.0	66000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1560	2000	1850	2100	5570	4160	10000	13000	50400	23000	3960	2950
2	1640	2030	1700	2600	5190	4980	9940	14300	42000	20700	3740	3440
3	1650	2180	1700	4920	4870	5430	9910	15300	36600	19500	3690	2650
4	1600	2690	1700	8350	4600	5160	9620	15300	34400	18200	3480	2190
5	1600	3890	1750	10000	4360	4870	10100	14600	36500	17300	3320	2000
6	1730	3650	1800	10100	4190	4630	13800	14500	37000	16500	3340	1950
7	1740	4310	1900	10100	4210	4560	13500	13700	37900	15300	3280	2400
8	1620	4610	2000	9990	4260	4610	13800	13600	38900	13600	3040	2630
9	1590	3750	2380	7860	4170	5070	15000	16800	35100	12200	2840	2860
10	1930	3300	2770	5760	4150	6500	13700	20300	32400	11200	2700	3000
11	2670	3580	3460	6140	4160	10100	13900	19400	32900	10500	2600	2510
12	2460	3260	3370	5750	4060	10800	12300	23100	35400	9920	2510	2200
13	2130	4970	3170	5610	4730	10300	11800	28800	36400	9430	2430	2060
14	1930	4460	3090	4610	7520	15700	11000	37800	38600	8500	2470	1960
15	1910	4090	3330	3290	7030	17600	12300	50100	40400	8100	2350	1870
16	1990	3900	3190	3070	6380	15700	17200	44800	43100	7570	2270	1820
17	1900	4270	2820	2800	5990	14400	25200	36800	42600	7190	2240	1760
18	1890	4460	2370	2600	5370	13100	28400	33200	38800	6820	2250	1710
19	2120	4390	1930	2340	4870	11600	29700	33200	37600	6660	2190	1660
20	2050	3960	1840	2340	4510	13200	29000	39200	37200	6350	2090	1630
21	1900	3690	1680	2400	4570	18500	25400	43200	45200	5870	2010	2940
22	1880	3300	1310	2700	4770	20700	22700	35800	41300	5460	1930	4510
23	2210	2710	1170	4000	4490	17900	24200	37800	33800	5120	1900	3480
24	3160	2690	1120	4460	4340	18000	23400	40300	32400	4930	1880	3360
25	2780	3590	1100	9350	4310	16900	20700	34200	34600	4810	1840	2980
26	2370	3530	1150	12200	4340	15600	18500	31800	36400	4640	1820	2650
27	2210	3190	1180	9360	4250	14300	16500	33800	35300	4530	1760	2540
28	2100	3190	1220	7970	4180	12700	15200	33800	32900	4780	1680	2540
29	2020	3160	1350	7110	4170	11800	14000	36700	31300	4740	1630	2400
30	2010	2420	1500	6510	---	11000	13000	50900	28000	4640	1600	2270
31	2010	---	1800	5970	---	10300	---	65800	---	4460	1800	---
TOTAL	62160	107220	62700	182140	139610	350170	503770	941600	1115400	303120	76640	74950
MEAN	2005	3574	2023	5875	4814	11300	16790	30370	37180	9778	2472	2498
MAX	3160	5260	3460	12200	7520	20700	29700	65800	50400	23000	3960	4510
MIN	1560	2000	1100	2100	4060	4160	9620	13000	28000	4460	1600	1630
CFSM	.36	.64	.36	1.05	.86	2.03	3.01	5.44	6.66	1.75	.44	.45
IN.	.41	.71	.42	1.21	.93	2.33	3.36	6.28	7.44	2.02	.51	.50
AC-FT	123300	212700	124400	361300	276900	694600	999200	1868000	2212000	601200	152000	148700

CAL YR 1983 TOTAL 2776850 MEAN 7608 MAX 47500 MIN 1100 CFSM 1.36 IN. 18.51 AC-FT 5508000
WTR YR 1984 TOTAL 3919480 MEAN 10710 MAX 65800 MIN 1100 CFSM 1.92 IN. 26.13 AC-FT 7774000

13340600 NORTH FORK CLEARWATER RIVER NEAR CANYON RANGER STATION, ID

LOCATION.--Lat 46°50'26", long 115°37'11", in SE1/4 SE1/4 NE1/4 sec.6, T.40 N., R.7 E., Clearwater County, Hydrologic Unit 17060307, Clearwater National Forest, on left bank immediately upstream from forest road bridge, 0.1 mi upstream from Beaver Creek, 1.7 mi downstream from Canyon Ranger Station, and at mile 38.0.

DRAINAGE AREA.--1,360 mi2, approximately.

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,660.00 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except December and January, which are fair. No regulation or diversion above station.

AVERAGE DISCHARGE.--17 years (1968-84), 3,648 ft3/s, 36.43 in./yr, 2,643,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,300 ft3/s June 16, 1974, gage height, 16.6 ft; maximum gage height, 17.04 ft June 1, 1972; minimum, 200 ft3/s Dec. 5, 1972, gage height, 5.00 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 12,000 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)
May 31	0345	*22300	*14.36

Minimum daily discharge, 520 ft3/s Dec. 24-25, minimum gage height, 5.66 ft Sept. 19.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 2-8, Dec. 19 to Jan. 2, Jan. 16-23)

5.4	475	8.0	3580
6.0	920	10.0	8300
6.5	1380	12.0	14100
7.0	1980	14.0	21100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	830	864	858	900	2500	1560	3090	5240	15900	6660	1570	1560
2	840	928	800	1100	2360	1690	3170	6840	13800	6220	1550	1130
3	830	1030	790	1360	2200	1680	3220	6740	12400	5680	1480	944
4	820	2060	800	2660	2080	1600	3310	6140	11900	5350	1420	912
5	850	2040	830	3310	1960	1600	3800	5860	12200	5110	1480	896
6	940	1730	860	3150	1920	1550	4780	5590	12000	4800	1730	1230
7	840	2530	900	2860	1990	1610	4420	5330	12000	4420	1490	1330
8	800	1840	1000	2610	1920	1720	4820	5520	12200	4100	1380	1040
9	820	1570	1230	2340	1850	1920	4730	6950	11600	3820	1320	1110
10	950	1480	1780	2130	1840	2270	4730	7600	10800	3580	1280	912
11	1080	3470	1920	2050	1810	3010	4450	7470	10600	3450	1250	840
12	888	3560	1620	1970	1820	3270	4100	9420	10900	3260	1220	824
13	864	2820	1510	1850	2420	3470	4020	10300	11500	3080	1200	760
14	856	2530	1550	1510	2720	4120	4220	12400	12100	2910	1150	744
15	832	2260	1510	1150	2270	4120	5410	14000	12400	2780	1120	728
16	808	2270	1420	1030	2190	3860	8010	12500	12800	2670	1100	720
17	816	2830	1210	1040	2060	3780	10500	11200	12200	2530	1240	712
18	1010	2860	920	1050	1930	3470	10700	10900	11500	2400	1130	712
19	952	2580	800	1060	1730	3350	11200	11400	11000	2300	1080	704
20	872	2320	700	1080	1850	3760	11000	14600	11500	2200	1020	760
21	840	2080	630	1160	1920	5130	9480	14300	12900	2120	1010	1050
22	888	1790	580	1300	1790	5150	9080	12400	11500	2050	992	1110
23	1390	1660	530	1600	1740	4800	9780	13900	10200	1940	992	1160
24	1150	1800	520	2230	1680	4640	8720	12900	9870	1910	976	1030
25	976	1880	520	6580	1660	4200	7810	11700	9980	1850	960	944
26	920	1690	530	5590	1620	4020	7050	11600	9950	1750	952	920
27	880	1610	550	3880	1610	3640	6190	12900	9810	1840	920	912
28	864	1570	580	3360	1600	3380	5880	12700	9360	1750	912	888
29	864	1420	620	3060	1570	3200	5390	13900	8660	1740	896	864
30	856	1050	700	2860	---	3020	5110	18300	7600	1810	904	848
31	864	---	780	2660	---	2990	---	20300	---	1660	1200	---
TOTAL	27990	60122	29578	70510	56610	97580	188170	330900	341130	97740	36924	28294
MEAN	903	2004	954	2275	1952	3148	6272	10670	11370	3153	1191	943
MAX	1390	3560	1920	6580	2720	5150	11200	20300	15900	6660	1730	1560
MIN	800	864	520	900	1570	1550	3090	5240	7600	1660	896	704
CFSM	.66	1.47	.70	1.67	1.44	2.31	4.61	7.85	8.36	2.32	.88	.69
IN.	.77	1.64	.81	1.93	1.55	2.67	5.15	9.05	9.33	2.67	1.01	.77
AC-FT	55520	119300	58670	139900	112300	193500	373200	656300	676600	193900	73240	56120

CAL YR 1983 TOTAL 1137242 MEAN 3116 MAX 15300 MIN 520 CFSM 2.29 IN. 31.11 AC-FT 2256000
WTR YR 1984 TOTAL 1365548 MEAN 3731 MAX 20300 MIN 520 CFSM 2.74 IN. 37.35 AC-FT 2709000

13340615 BEAVER CREEK NEAR CANYON RANGER STATION, ID

LOCATION.--Lat 46°48'44", long 115°38'48", in SW1/4 NW1/4 NE1/4 sec.13, T.40 N., R.6 E., Clearwater County, Hydrologic Unit 17060308, on right bank 1,000 ft upstream from Sourdough Creek, 1 mi downstream from Sousie Creek, 2.3 mi upstream from mouth, 3.4 mi southeast of Canyon Ranger Station, and 15 mi northeast of Headquarters.

DRAINAGE AREA.--51.7 mi2.

PERIOD OF RECORD.--October 1983 to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 2,220 ft, from topographic map.

REMARKS.--Record good.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Nov. 11	1400	403	5.23	Apr. 18	1845	*638	5.61
Dec. 24	1000	ice jam	*7.59	May 15	1615	364	5.19
Jan. 4	0945	398	5.23	May 23	0845	449	5.34
Jan. 21	0830	ice jam	7.18				

Minimum daily discharge, 30 ft3/s Dec. 24, 25, minimum gage height, 4.11 ft, Aug. 29, 30, Sept. 17-20, 27-30.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 30 to Dec. 8, Dec. 17 to Jan. 2, 13-25)

4.0	28	4.8	188
4.2	50	5.1	315
4.5	104	5.5	555

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	46	45	55	118	75	188	219	218	95	58	59
2	39	52	43	80	111	97	185	308	203	91	59	50
3	38	60	44	145	104	97	175	289	192	88	58	49
4	37	131	46	273	106	91	185	259	192	86	57	47
5	39	74	47	134	114	91	211	244	199	84	59	47
6	45	97	49	123	97	86	268	230	199	82	69	63
7	56	86	52	97	102	86	260	222	199	80	59	58
8	52	70	56	91	100	93	301	234	203	79	56	54
9	48	64	62	84	91	106	296	296	218	78	55	52
10	46	74	126	80	86	109	287	268	199	77	54	49
11	58	264	93	79	86	178	264	277	196	75	55	48
12	52	142	80	78	89	196	239	292	185	73	54	48
13	42	123	79	76	145	226	239	292	182	72	52	47
14	42	106	80	72	131	264	251	320	175	71	51	45
15	41	100	79	71	111	260	326	354	162	71	51	45
16	41	136	75	70	109	247	466	315	150	69	51	45
17	45	159	65	69	104	239	526	277	146	68	50	44
18	56	153	56	69	100	226	497	268	137	67	50	44
19	45	131	49	70	95	226	472	268	131	66	51	44
20	43	116	46	72	93	268	513	348	139	66	50	47
21	42	97	38	77	95	332	424	296	181	64	50	51
22	57	84	34	85	84	332	447	264	145	63	49	52
23	62	80	31	96	82	310	449	354	128	63	49	55
24	48	82	30	110	82	296	386	296	123	62	48	49
25	44	84	30	150	84	260	322	273	116	61	47	46
26	43	75	31	247	82	230	277	287	111	60	47	46
27	43	74	33	172	89	203	252	282	107	60	46	45
28	43	72	35	142	95	192	239	260	104	60	46	44
29	43	64	37	128	75	182	220	251	102	60	45	44
30	43	50	40	116	---	178	207	260	99	66	47	44
31	44	---	45	118	---	182	---	255	---	59	70	---
TOTAL	1417	2946	1656	3329	2860	5948	9372	8658	4841	2216	1643	1461
MEAN	45.7	98.2	53.4	107	98.6	192	312	279	161	71.5	53.0	48.7
MAX	62	264	126	273	145	332	526	354	218	95	70	63
MIN	37	46	30	55	75	75	175	219	99	59	45	44
CFSM	.88	1.90	1.03	2.07	1.91	3.71	6.03	5.40	3.11	1.38	1.03	.94
IN.	1.02	2.12	1.19	2.40	2.06	4.28	6.74	6.23	3.48	1.59	1.18	1.05
AC-FT	2810	5840	3280	6600	5670	11800	18590	17170	9600	4400	3260	2900

WTR YR 1984 TOTAL 46347 MEAN 127 MAX 526 MIN 30 CFSM 2.46 IN. 33.35 AC-FT 91930

13340855 REEDS CREEK NEAR HEADQUARTERS, IDAHO

LOCATION.--Lat 46°37'23", long 115°56'38", in SE1/4 SW1/4 NW1/4, sec.22, T.38 N., R.4 E., Clearwater County, Hydrologic unit 17060308, on right bank 200 ft downstream from road bridge, 2,600 ft upstream from Snake Creek, approximately 3.5 mi upstream from backwater of Dworshak Reservoir, and 6.5 mi west of Headquarters.

DRAINAGE AREA.--62.6 mi2.

PERIOD OF RECORD.--Miscellaneous measurements made at various sites and times prior to October 1983. Recording gage October 1983 to September 1984.

GAGE.--Water-stage recorder. Datum of gage is 2,150 ft from topographic map.

REMARKS.--Records good except January, February, and September, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Dec. 28	0600	ice jam	*9.29	Apr. 8	1630	493	7.21
Mar. 21	1330	*718	7.52	Apr. 17	0130	449	7.13

Minimum recorded discharge, 10 ft3/s Aug. 29, gage-height 5.27 ft, but may have been less during period of no gage-height record Aug. 26-29.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 30 to Dec. 7, Dec. 18-28)

5.2	7.5	6.0	66
5.4	14	6.3	117
5.6	23	6.6	196
5.8	42	7.0	365
		7.5	700

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	24	39	56	98	66	237	152	124	46	17	39
2	16	36	35	75	96	88	265	229	112	41	17	23
3	17	46	32	135	96	86	269	220	105	38	16	20
4	16	133	31	195	94	79	269	204	109	37	15	20
5	16	69	30	125	94	79	283	181	133	35	16	21
6	18	83	31	98	92	78	407	187	136	34	24	29
7	18	103	33	86	90	88	332	167	122	32	19	25
8	16	57	34	77	88	99	413	153	135	31	17	23
9	16	47	40	73	86	124	402	182	156	30	15	21
10	20	52	122	69	81	171	402	157	128	29	15	20
11	22	296	133	66	76	437	360	154	113	28	15	17
12	20	155	93	65	81	413	323	155	111	26	14	18
13	19	113	78	63	120	424	309	137	109	26	14	17
14	19	90	86	62	115	506	305	148	93	25	13	17
15	18	79	92	61	100	468	356	215	84	24	13	17
16	18	95	75	60	96	437	413	232	76	23	13	17
17	19	148	54	59	92	437	413	189	70	23	12	17
18	30	142	52	60	89	413	370	161	67	22	12	17
19	23	117	46	61	87	424	351	151	64	22	13	17
20	20	92	40	62	85	519	370	226	71	20	12	18
21	19	76	36	66	84	684	318	177	159	20	12	19
22	27	58	32	72	80	644	292	154	123	20	12	21
23	56	52	30	79	76	532	287	294	86	19	12	25
24	30	55	29	90	76	468	245	252	72	19	12	33
25	25	76	29	130	75	397	214	208	64	18	12	25
26	22	58	29	170	75	351	190	197	58	18	12	22
27	20	56	31	150	79	305	168	187	56	18	12	19
28	20	62	32	125	73	258	158	155	52	17	11	15
29	20	50	33	110	63	245	150	142	50	17	10	18
30	20	45	35	105	---	241	142	142	51	19	12	17
31	22	---	39	102	---	237	---	155	---	17	29	---
TOTAL	658	2563	1531	2803	2535	9798	8953	5661	2889	792	448	627
MEAN	21.2	85.4	49.4	90.4	87.4	316	298	183	96.3	25.5	14.5	20.9
MAX	56	296	133	195	120	684	413	294	159	46	29	39
MIN	16	24	29	56	63	66	142	137	50	17	10	17
CFSM	.34	1.36	.79	1.44	1.40	5.05	4.76	2.92	1.54	.41	.23	.33
IN.	.39	1.52	.91	1.67	1.51	5.82	5.32	3.36	1.72	.47	.27	.37
AC-FT	1310	5080	3040	5560	5030	19430	17760	11230	5730	1570	889	1240

WTR YR 1984 TOTAL 39258 MEAN 107 MAX 684 MIN 10 CFSM 1.71 IN. 23.33 AC-FT 77870

Note.--No gage-height record Oct. 1-13, Dec. 28 to Feb. 29, Aug. 26-29, Sept. 4-30.

13340950 DWORSHAK RESERVOIR NEAR AHSAHKA, ID

LOCATION.--Lat 46°31'00", long 116°17'30", in SW1/4 SE1/4 sec.26, T.37 N., R.1 E., Clearwater County, Hydrologic Unit 17060308, at Dam, 1.9 mi northeast of Ahsahka, and at mile 2.0.

DRAINAGE AREA.--2,440 mi2, approximately. Mean altitude, 4,220 ft.

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder, located in gate slot 6, on the 1,603 ft level. Datum of gage is at mean sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by straight-axis concrete gravity dam. Total capacity is 3,459,000 acre-ft between elevations 970.0 ft, bottom of bypass valve, and 1,599.5 ft, maximum pool elevation. Inactive storage for minimum power head is 1,452,000 acre-ft, elevation, 1,445.0 ft. Storage began Sept. 27, 1971. Dworshak Dam is used to regulate annual floodwaters of the North Fork Clearwater River and for power generation.

COOPERATION.--Gage-height record and capacity table furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 3,472,000 acre-ft Aug. 16, 1978, and June 6, 1981, elevation, 1,600.21 ft; minimum since full capacity was attained July 29, 1974, 1,455,000 acre-ft Mar. 29, 30, 1976, elevation, 1,445.36 ft.

EXTREMES FOR CURRENT YEAR.--Maximum observed contents, 3,466,000 acre-ft July 9, elevation 1,599.29 ft; minimum, 2,412,000 acre-ft Jan. 23, elevation, 1,533.07 ft.

CONTENTS (ACRE-FEET) WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
2400 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3108000	3030000	2865000	2472000	2501000	2565000	2636000	2771000	3352000	3421000	3413000	3370000
2	3107000	3027000	2849000	2474000	2505000	2552000	2633000	2772000	3372000	3422000	3416000	3370000
3	3105000	3025000	2833000	2478000	2509000	2539000	2630000	2772000	3382000	3423000	3418000	3368000
4	3102000	3024000	2818000	2485000	2513000	2525000	2628000	2770000	3387000	3433000	3421000	3366000
5	3099000	3022000	2803000	2493000	2516000	2519000	2628000	2768000	3392000	3442000	3424000	3350000
6	3096000	3020000	2787000	2503000	2519000	2509000	2631000	2765000	3395000	3450000	3427000	3335000
7	3092000	3021000	2771000	2511000	2522000	2504000	2632000	2764000	3395000	3458000	3428000	3320000
8	3089000	3023000	2756000	2519000	2525000	2504000	2636000	2768000	3392000	3464000	3427000	3309000
9	3087000	3023000	2741000	2525000	2527000	2509000	2638000	2774000	3386000	3466000	3429000	3299000
10	3084000	3025000	2729000	2532000	2530000	2517000	2642000	2781000	3378000	3461000	3429000	3285000
11	3080000	3034000	2716000	2536000	2533000	2531000	2643000	2789000	3373000	3456000	3431000	3267000
12	3076000	3037000	2704000	2539000	2535000	2546000	2644000	2812000	3374000	3451000	3431000	3249000
13	3074000	3038000	2700000	2536000	2543000	2563000	2644000	2838000	3394000	3445000	3432000	3231000
14	3073000	3039000	2699000	2526000	2552000	2583000	2645000	2859000	3373000	3449000	3432000	3214000
15	3071000	3039000	2698000	2514000	2559000	2602000	2650000	2884000	3372000	3453000	3433000	3204000
16	3069000	3037000	2696000	2502000	2564000	2618000	2662000	2902000	3373000	3446000	3434000	3195000
17	3067000	3037000	2693000	2486000	2569000	2633000	2680000	2921000	3371000	3445000	3434000	3178000
18	3066000	3040000	2688000	2468000	2573000	2647000	2698000	2946000	3370000	3443000	3435000	3160000
19	3064000	3034000	2676000	2451000	2577000	2660000	2716000	2976000	3370000	3445000	3435000	3142000
20	3060000	3023000	2659000	2433000	2580000	2666000	2734000	3018000	3373000	3448000	3432000	3124000
21	3055000	3010300	2641000	2419000	2584000	2672000	2748000	3047000	3374000	3450000	3419000	3108000
22	3053000	2996000	2622000	2423000	2587000	2679000	2760000	3067000	3371000	3452000	3403000	3097000
23	3053000	2982000	2604000	2412000	2590000	2681000	2773000	3095000	3371000	3454000	3385000	3087000
24	3050000	2969000	2587000	2415000	2594000	2682000	2782000	3119000	3371000	3456000	3382000	3074000
25	3045000	2955000	2570000	2435000	2596000	2679000	2785000	3140000	3372000	3457000	3382000	3061000
26	3042000	2941000	2553000	2455000	2597000	2677000	2786000	3160000	3374000	3459000	3382000	3044000
27	3040000	2927000	2536000	2466000	2595000	2672000	2784000	3184000	3380000	3454000	3381000	3031000
28	3038000	2913000	2519000	2475000	2586000	2666000	2782000	3208000	3386000	3444000	3376000	3016000
29	3035000	2898000	2502000	2483000	2575000	2659000	2778000	3233000	3392000	3436000	3369000	3015000
30	3033000	2882000	2485000	2490000	---	2652000	2774000	3275000	3407000	3426000	3367000	3013000
31	3031000	---	2469000	2496000	---	2644000	---	3320000	---	3411000	3370000	---
MEAN	3069200	3002400	2676400	2482300	2553700	2601800	2693400	2951500	3379100	3445800	3412200	3196100
MAX	3108000	3040000	2865000	2539000	2597000	2682000	2786000	3320000	3407000	3466000	3435000	3370000
MIN	3031000	2882000	2469000	2412000	2501000	2504000	2628000	2764000	3352000	3411000	3367000	3013000
(†)	1575.26	1565.82	1537.24	1539.14	1544.85	1549.68	1558.63	1592.04	1596.77	1596.98	1594.75	1574.17
(‡)	-79000	-149000	-413000	+27000	+79000	+69000	+130000	+546000	+87000	+4000	-41000	-357000

CAL YR (‡) -169000
WTR YR (‡) -97000

(†) Elevation, in feet, at end of month.
(‡) Change, in contents, in acre-ft.

13341050 CLEARWATER RIVER NEAR PECK, ID

LOCATION.--Lat 46°30'00", long 116°23'30", in NE1/4 NE1/4 sec.1, T.36 N., R.1 W., Nez Perce County, Hydrologic Unit 17060306, on left bank 2 mi upstream from Big Canyon Creek, 2.2 mi northeast of Peck, 3 mi downstream from North Fork Clearwater River, and at mile 37.4.

DRAINAGE AREA.--8,040 mi2, approximately.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 930 ft, from topographic map.

REMARKS.--Records good. Flow regulated by Dworshak Reservoir beginning September 1971.

AVERAGE DISCHARGE.--20 years, 15,540 ft3/s, 11,260,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 127,200 ft3/s June 16, 1974, gage height, 23.66 ft; maximum gage height, 25.00 ft Dec. 28, 1967 (ice jam); minimum discharge, 1,200 ft3/s Oct. 31, 1971, gage height, 2.24 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 8, 1964, reached a stage of 23.95 ft, from floodmark, discharge, 113,000 ft3/s, from rating extended above 84,100 ft3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 80,600 ft3/s May 31, gage height, 18.60 ft; minimum, 3,210 ft3/s Aug. 28, gage height, 3.75 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

3.5	2810	9.0	19100
4.0	3650	11.0	25600
5.0	5710	13.0	40100
6.0	8290	16.0	60200
7.0	11200	19.0	84000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3650	4310	12000	4240	8470	12600	20100	22800	58800	25800	5200	5020
2	3580	5020	12200	3950	7840	14900	18600	23700	52500	28200	4570	5600
3	3970	5900	12900	4030	7520	15700	17700	25000	50700	27300	4860	4910
4	4370	6750	12900	7530	7240	15300	17400	25200	49700	21100	4640	4460
5	4580	8300	12700	10500	6980	11700	17800	24400	53100	20200	4690	9250
6	4730	8150	12500	10400	6830	12400	21400	24400	53300	19400	4740	11500
7	4760	7800	12500	10700	6820	10800	21300	23200	55600	18200	5000	11900
8	4440	7280	12600	10100	6870	8480	21300	20400	58800	16500	5570	9310
9	4400	6000	12600	9050	6760	7290	22600	23600	54700	16800	4410	9510
10	4900	5840	13000	7970	6740	8650	21300	27300	51900	18600	4250	10200
11	5860	7090	13700	8050	6520	11900	21500	26400	50600	17800	4210	11900
12	5890	9530	13300	8230	6390	12600	20000	24600	51000	16700	4110	11700
13	4570	9350	8600	10200	7020	12200	19400	29400	52600	16500	4010	11600
14	3910	8830	7170	12400	9710	17300	18700	43600	57100	10900	4000	9560
15	4150	8500	7510	11200	9320	19700	19800	58500	58900	13200	3680	7450
16	4270	9600	7440	11400	8660	17400	24400	52400	60700	14800	3790	10200
17	4420	9810	6810	14100	8300	16000	32100	43600	61200	11500	3770	11400
18	4600	9010	7260	13400	7700	14900	35900	36400	55900	11100	3790	11400
19	4430	12000	10300	12600	7200	13400	37300	34500	52400	9000	3710	11300
20	5280	13900	12100	12600	6840	20100	36500	40300	50200	8440	5110	11700
21	5570	13600	11700	12200	4880	28300	33100	69300	62300	7990	9570	11600
22	4910	13200	11200	4860	7110	30800	30200	64500	59000	7590	10600	10400
23	4920	12700	11000	11900	6790	27900	31600	66200	47400	7270	11500	10400
24	6390	12600	11100	7330	6640	27900	31300	69500	65400	7060	4350	10400
25	6510	13500	11700	11700	6600	26900	30400	63100	67200	6940	3340	10400
26	5430	13300	12200	14000	6640	25500	28300	40500	66600	6800	3310	12300
27	4880	13200	12300	12000	8840	24300	26400	42500	65200	9350	3270	11000
28	4730	13200	12600	10600	12100	22700	25000	62400	62400	11500	5120	10900
29	4660	13200	12300	9730	12100	22000	23900	65100	40400	11100	6130	4960
30	4660	12500	12400	9130	---	21200	23000	58700	31200	11900	3970	4170
31	4400	---	12700	8600	---	20500	---	75100	---	13600	3870	---
TOTAL	147820	294190	351290	304730	223430	551320	748100	1166600	1558800	440240	153510	284700
MEAN	4768	9806	11330	9830	7704	17780	24940	37630	51960	14200	4952	9490
MAX	6510	13900	13700	14100	12100	30800	37300	75100	62300	28200	11500	12300
MIN	3580	4310	6810	3950	6390	7290	17400	20400	31200	6800	3270	4170
AC-FT	293200	583500	696800	604400	443200	1094000	1484000	2314000	3092000	873200	304500	564700

CAL YR 1983 TOTAL 4863670 MEAN 13330 MAX 55200 MIN 3380 AC-FT 9647000
WTR YR 1984 TOTAL 6224730 MEAN 17010 MAX 75100 MIN 3270 AC-FT12347000

13341050 CLEARWATER RIVER NEAR PECK, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.
PERIOD OF DAILY RECORD.--
  WATER TEMPERATURES: October 1964 to current year.
INSTRUMENTATION.--Temperature recorder since October 1964.
COOPERATION.--Temperature records furnished by U.S. Corps of Engineers and reviewed by U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.--
  WATER TEMPERATURES: Maximum, 25°C Aug. 1, 2, 1965, July 28, 1968; minimum, 0.0°C on many days during winter months.
EXTREMES FOR CURRENT YEAR.--
  WATER TEMPERATURES: Maximum, 21.5°C Aug. 3; minimum, 0.5°C Jan. 4-6, 22-23, 25-26.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.5	11.0	13.5	9.0	7.0	6.5	3.5	1.5	2.0	2.0	4.0	4.0
2	12.5	11.5	10.5	10.0	6.5	6.0	2.0	1.5	2.0	2.0	4.5	4.0
3	12.0	11.5	11.0	10.5	6.0	6.0	3.0	2.0	2.5	2.0	4.5	4.5
4	12.0	11.5	11.0	10.5	6.0	5.5	2.0	.5	2.5	2.0	4.5	4.0
5	12.5	11.0	10.5	10.5	5.5	5.5	.5	.5	2.5	2.0	5.0	4.5
6	12.0	11.5	10.5	10.0	5.5	5.5	1.0	.5	2.0	2.0	4.5	4.0
7	12.0	11.0	10.0	9.0	5.5	5.5	1.0	1.0	2.5	2.0	5.5	4.0
8	11.5	10.5	9.0	8.5	5.5	5.5	1.0	1.0	3.5	2.5	5.5	4.0
9	11.5	11.0	8.0	8.0	5.5	5.5	1.5	1.0	3.0	2.5	6.0	5.0
10	11.5	11.0	8.5	7.5	5.5	5.5	1.5	1.5	3.5	2.5	6.0	5.0
11	11.5	10.5	8.5	8.5	5.5	5.5	2.0	1.5	3.5	3.0	5.5	5.0
12	11.0	10.5	8.5	8.0	5.5	5.0	2.5	2.0	3.5	3.5	5.5	5.0
13	11.0	10.5	8.5	8.0	5.5	4.0	3.5	2.5	3.5	3.5	5.0	5.0
14	10.5	10.0	8.5	8.0	4.5	3.5	3.5	2.0	4.0	3.5	5.0	4.5
15	11.0	10.0	8.5	8.0	4.5	3.5	3.5	1.5	3.5	3.0	5.0	4.5
16	11.0	9.5	9.0	8.5	4.5	3.5	3.5	2.0	3.5	3.5	6.0	5.0
17	10.5	10.0	8.5	8.0	4.0	3.5	3.0	3.0	3.5	3.5	6.0	5.5
18	10.5	10.0	8.0	7.5	4.0	3.5	3.0	3.0	3.5	3.0	6.0	5.5
19	10.0	9.5	8.0	7.5	4.0	3.5	3.5	3.0	3.5	3.0	6.0	6.0
20	10.5	10.0	8.0	8.0	4.5	4.0	3.5	3.5	3.0	2.5	6.5	5.5
21	11.0	10.0	8.0	8.0	4.5	4.5	3.5	2.5	3.5	3.0	6.5	5.5
22	10.5	10.0	8.0	7.5	4.5	4.5	2.0	.5	3.5	3.0	5.5	5.0
23	10.0	9.5	7.5	7.5	4.5	4.5	3.0	.5	4.0	3.0	5.5	5.0
24	10.0	9.0	7.5	7.5	4.5	4.5	2.5	1.0	3.5	3.5	5.5	5.0
25	10.0	9.0	7.5	7.0	4.5	4.0	1.0	.5	4.0	3.0	5.5	5.0
26	10.0	9.0	7.0	7.0	4.0	4.0	.5	---	4.0	3.5	5.5	5.0
27	9.5	8.5	7.5	7.0	4.0	4.0	2.0	1.0	4.5	3.5	5.5	5.0
28	9.5	8.5	7.5	7.0	4.0	4.0	2.0	1.5	4.5	4.0	5.5	5.0
29	9.5	8.5	7.0	6.5	4.0	4.0	2.5	2.0	4.0	4.0	5.5	5.0
30	9.5	8.5	6.5	6.5	4.0	4.0	2.5	2.0	---	---	6.0	5.5
31	9.5	9.0	---	---	4.0	3.5	2.5	2.0	---	---	6.5	6.0
MONTH	12.5	8.5	13.5	6.5	7.0	3.5	3.5	.5	4.5	2.0	6.5	4.0

13341050 CLEARWATER RIVER NEAR PECK--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.5	6.0	7.5	7.0	8.0	7.0	12.5	11.0	21.0	13.5	15.5	13.5
2	6.5	6.0	8.0	7.5	8.5	7.5	13.0	11.5	21.0	19.0	16.0	14.0
3	6.0	6.0	8.0	7.5	9.0	7.5	14.5	12.5	21.5	19.0	15.5	14.0
4	6.5	6.0	7.5	7.0	9.0	8.5	14.5	13.5	21.0	19.5	16.0	14.0
5	7.0	6.5	8.0	7.5	9.0	8.0	15.5	14.0	20.5	19.0	15.5	12.0
6	7.0	6.5	7.5	7.0	9.0	8.5	15.5	15.0	20.0	19.0	12.5	11.5
7	6.5	6.0	9.0	7.0	9.0	8.5	15.5	14.5	19.5	17.0	12.0	11.0
8	6.5	6.0	14.5	8.0	8.5	8.0	15.0	14.0	19.0	14.5	13.5	12.0
9	6.5	6.0	9.0	8.0	9.0	8.0	14.5	14.0	20.0	17.0	13.5	12.0
10	6.5	6.0	9.5	8.0	9.5	8.5	14.5	14.0	19.5	17.5	13.5	12.0
11	5.5	5.5	8.5	7.5	9.5	8.5	15.0	14.0	19.5	17.5	12.5	11.5
12	6.0	5.5	9.5	8.0	10.0	9.0	16.5	13.5	19.0	17.5	11.5	10.5
13	6.5	5.5	9.5	8.5	10.5	9.5	16.0	13.5	18.5	16.5	11.5	10.5
14	7.5	6.5	9.5	7.5	10.5	10.0	17.0	13.5	19.0	16.5	11.0	9.5
15	8.5	7.5	7.5	6.0	11.0	10.0	17.5	16.0	19.0	16.5	11.5	9.5
16	8.5	8.0	7.0	5.5	11.0	10.0	16.5	13.5	19.0	17.0	11.5	10.0
17	8.5	7.0	8.0	6.5	10.5	10.0	18.0	13.5	20.0	17.5	11.0	9.5
18	7.0	6.0	9.5	7.5	10.5	9.5	18.0	14.0	19.0	17.5	11.5	10.5
19	6.5	6.0	9.5	8.5	10.5	10.0	18.5	16.5	19.0	17.0	11.5	10.5
20	6.5	6.0	9.0	8.0	10.5	9.5	18.0	17.0	18.0	13.0	11.0	11.0
21	6.5	5.5	8.5	7.5	10.5	10.0	17.5	16.5	13.0	12.0	11.5	10.5
22	8.0	6.5	8.0	7.0	10.0	9.0	17.0	16.0	12.5	12.0	12.5	11.0
23	8.0	7.5	9.0	7.5	11.0	9.5	17.5	16.0	12.5	11.5	11.5	10.5
24	7.5	6.0	8.5	7.0	12.0	10.5	18.5	17.0	17.0	12.0	10.5	10.0
25	6.5	5.0	8.0	7.0	13.0	11.5	19.5	17.5	17.0	13.0	10.5	9.5
26	6.5	5.5	8.5	7.5	13.0	12.0	20.0	13.5	17.5	15.0	11.0	10.0
27	6.5	5.5	9.0	7.5	13.0	11.5	19.5	14.5	17.5	15.5	11.0	10.0
28	6.5	6.0	10.0	8.5	13.5	12.0	19.0	14.5	16.5	13.0	11.0	10.0
29	6.5	6.0	10.5	9.0	13.5	12.5	19.0	14.0	13.5	12.0	11.5	9.5
30	7.0	6.5	10.5	9.5	12.5	11.0	18.5	14.0	14.5	12.5	11.5	10.0
31	---	---	9.0	7.5	---	---	14.5	13.5	14.0	13.5	---	---
MONTH	8.5	5.0	14.5	5.5	13.5	7.0	20.0	11.0	21.5	11.5	16.0	9.5
YEAR	21.5	.5										

13341128 LONG HOLLOW CREEK AT NEZPERCE, ID

LOCATION.--Lat 46°14'03", long 116°14'10", in NW1/4 SE1/4 NW1/4 sec.5, T.33 N., R.2 E., Lewis County, Hydrologic Unit 17060306, on upstream side of Fifth Avenue bridge, one block upstream from Idaho Highway 64, two blocks east of Idaho Highway 7, 0.7 mi upstream from sewage disposal ponds.

DRAINAGE AREA.--17.06 mi².

PERIOD OF RECORD.--October 1979 to July 1983, January 1984 to September 1984.

GAGE.--Wire-weight gage and crest-stage gage to record peak flows. Altitude of gage is 3,200 ft, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed discharge 54 ft3/s Apr. 14, 1982, gage height 2.62 ft; maximum gage height 5.14 ft Feb. 16, 1982 (ice jam); no flow for many days in 1982.

EXTREMES FOR CURRENT YEAR.--Maximum observed discharge 46 ft3/s Jan. 25, gage height 2.87 ft; minimum observed discharge .06 ft3/s many days.

Rating table (gage height, in feet, and discharge in cubic feet per second)
(stage-discharge relation affected by ice Jan. 16-22; shifting-control method used Jan. 1 to Apr. 25, May 1-13, 15-17, 20-21, 23-27, 31, June 6-11, June 21 to Sept. 30)

1.56	0.034	1.78	2.1
1.58	.062	1.88	5.0
1.60	.105	1.98	9.0
1.64	.259	2.05	14.4
1.68	.533	2.20	22.0
1.72	1.0	2.60	55.5

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				1.9	6.2	4.4	2.1	1.7	.74	.22	.10	.13
2				1.7	4.0	5.0	5.4	1.5	.82	.22	.10	.13
3				1.9	3.8	5.8	4.0	2.1	.54	.18	.10	.13
4				4.0	4.4	4.0	2.6	4.0	.74	.18	.10	.13
5				5.8	5.8	3.2	3.2	2.4	1.2	.18	.14	.13
6				13	6.2	3.2	13	2.1	1.5	.14	.10	.10
7				19	4.6	2.6	5.8	1.7	2.6	.14	.10	.13
8				12	4.6	2.6	4.6	1.3	2.1	.18	.10	.13
9				11	4.4	2.6	4.6	1.5	1.2	.14	.10	.13
10				6.5	3.2	7.4	6.6	1.2	1.9	.14	.10	.10
11				3.8	3.2	9.9	8.2	1.6	1.3	.14	.10	.06
12				3.8	4.0	4.6	5.8	2.1	.74	.10	.10	.06
13				3.8	5.8	3.2	4.6	1.3	.74	.10	.10	.06
14				3.8	3.8	16	3.2	.86	.54	.10	.10	.06
15				1.5	5.4	7.0	1.9	4.4	.38	.10	.10	.06
16				1.1	3.4	4.4	1.9	3.4	.38	.10	.10	.06
17				1.0	2.6	5.4	1.7	1.3	.30	.10	.10	.06
18				.97	2.1	3.8	1.9	1.0	.30	.10	.10	.06
19				.90	2.1	3.8	5.0	.74	.62	.10	.10	.06
20				.85	1.9	13	3.4	3.8	1.2	.10	.10	.06
21				.81	1.7	13	2.4	1.7	2.6	.10	.10	.13
22				.77	1.5	11	1.9	1.2	5.4	.10	.10	.15
23				.76	1.5	12	1.9	21	.74	.10	.10	.22
24				6.6	1.5	12	1.5	7.4	.46	.10	.10	.22
25				46	1.3	8.6	1.3	3.8	.30	.10	.10	.22
26				13	1.3	12	1.0	3.2	.26	.10	.10	.22
27				13	1.7	8.6	.86	1.5	.22	.10	.10	.18
28				17	1.9	7.0	.74	1.0	.22	.13	.10	.12
29				16	2.3	5.8	1.0	.86	.26	.13	.10	.13
30				9.9	---	4.0	1.2	.74	.26	.10	.10	.13
31				7.0	---	3.2	---	1.3	---	.10	.14	---
TOTAL				229.04	98.7	209.1	103.10	83.90	30.36	3.86	3.18	3.56
MEAN				7.39	3.40	6.75	3.44	2.71	1.01	.12	.10	.12
MAX				46	6.2	16	13	21	5.4	.22	.14	.22
MIN				.76	1.3	2.6	.74	.74	.22	.10	.10	.06
AC-FT				454	196	415	204	166	60	7.7	6.3	7.1

13342450 LAPWAI CREEK NEAR LAPWAI, ID

LOCATION.--Lat 46°25'36", long 116°48'13", in NW1/4 NE1/4 NW1/4 sec.35, T.36 N., R.4 W., Nez Perce County, Hydrologic Unit 17060306, on right bank 40 ft upstream from county bridge, 0.7 mi downstream from Tom Beall Creek, 1.5 mi north of Lapwai, 1.6 mi south of Spalding, and at mile 1.9.
DRAINAGE AREA.--235 mi2, approximately.
PERIOD OF RECORD.--October 1974 to current year.
GAGE.--Water-stage recorder. Datum of gage is 864.64 ft National Geodetic Vertical Datum of 1929.
REMARKS.--Records good except for December, which are fair. Diversions above station for irrigation of about 1,500 acres.
AVERAGE DISCHARGE.--10 years, 91.3 ft3/s, 5.28 in./yr, 66,130 acre-ft/yr.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,200 ft3/s Dec. 1, 1975, gage height, 8.67 ft; minimum, 0.85 ft3/s Aug. 18, 19, 1977, gage height, 3.00 ft.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 4,380 ft3/s January 1965 on basis of slope-area measurement.
EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)
Mar. 21	2200	*962	*6.67

Minimum discharge, 4.3 ft3/s Aug. 27, 28, gage height 3.36 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 1-6, Dec. 20 to Jan. 1, Jan. 16-22; shifting-control method used Jan. 23, Mar. 11-24)

3.3	4.5	4.0	69
3.4	8.8	4.5	162
3.5	14.7	5.0	290
3.7	31.5	6.0	625
		7.0	1010

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	17	16	28	99	54	290	195	148	46	11	34
2	14	17	16	36	83	87	279	202	133	41	12	22
3	14	18	16	56	80	104	239	218	125	39	10	15
4	14	24	16	144	74	99	208	241	125	34	9.1	15
5	13	26	16	231	69	95	208	244	124	31	10	14
6	13	26	17	231	71	87	432	266	148	29	14	12
7	13	32	18	190	66	99	387	236	179	28	12	12
8	13	29	20	164	66	115	443	223	293	26	10	12
9	13	27	28	130	62	130	446	225	217	23	10	13
10	14	25	30	109	59	164	446	213	207	21	8.8	12
11	16	26	35	99	53	305	413	213	195	18	8.8	12
12	21	25	39	90	53	228	394	220	219	16	8.4	12
13	23	25	37	83	82	190	371	200	192	17	8.4	11
14	22	26	30	63	104	302	326	192	159	16	7.9	12
15	21	26	36	48	87	374	335	190	143	15	7.9	19
16	21	28	36	34	83	314	368	185	130	14	7.4	15
17	21	27	34	27	75	317	374	184	124	13	6.0	15
18	21	26	30	26	66	293	247	149	109	12	6.2	15
19	16	25	29	26	60	271	432	140	93	12	6.5	15
20	16	24	26	26	62	446	446	158	92	12	6.4	15
21	15	23	23	27	60	688	394	142	160	12	6.7	15
22	16	22	21	33	57	819	356	130	137	12	6.4	17
23	20	23	20	65	53	666	359	226	131	11	6.7	22
24	18	23	19	140	53	594	341	228	115	11	6.6	30
25	18	22	19	443	53	520	287	212	106	13	6.4	26
26	18	21	19	238	53	524	250	216	95	28	5.5	24
27	18	21	20	180	51	527	226	224	88	14	5.0	23
28	16	21	21	160	51	488	215	191	77	13	5.0	22
29	16	21	22	140	52	460	205	172	60	12	5.9	21
30	16	17	23	120	---	390	200	164	54	18	7.3	21
31	16	---	24	107	---	335	---	166	---	13	42	---
TOTAL	520	713	736	3514	1937	10065	10019	6149	4198	620	284.3	546
MEAN	16.8	23.8	24.6	113	66.8	325	334	198	140	20.0	9.17	18.2
MAX	23	32	39	443	104	819	446	266	293	46	42	34
MIN	13	17	16	26	51	54	200	130	54	11	5.0	11
CFSM	.07	.10	.10	.48	.28	1.38	1.42	.84	.60	.09	.04	.08
IN.	.08	.11	.12	.56	.31	1.59	1.59	.97	.66	.10	.05	.09
AC-FT	1030	1410	1500	6970	3840	19960	19870	12200	8330	1230	564	1080

CAL YR 1983 TOTAL 20638.1 MEAN 56.5 MAX 413 MIN 5.4 CFSM .24 IN. 3.27 AC-FT 40940
WTR YR 1984 TOTAL 39321.3 MEAN 107 MAX 819 MIN 5.0 CFSM .46 IN. 6.22 AC-FT 77990

13342500 CLEARWATER RIVER AT SPALDING, ID

LOCATION.--Lat 46°26'55", long 116°49'35", in Indian allotment 198, NW1/4 NE1/4 SW1/4 sec.22, T.36 N., R.4 W., Nez Perce County, Hydrologic Unit 17060306, Nez Perce Indian Reservation, on left bank 0.4 mi downstream from Lapwai Creek, 0.6 mi west of Spalding Post Office, 0.9 mi upstream from U.S. Highway 95 bridge, and at mile 11.6.

DRAINAGE AREA.--9,570 mi2, approximately. Mean altitude, 4,360 ft.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1910 to October 1913, October 1924 to January 1925, April 1925 to current year. Published as "near Lewiston" 1910-13, 1924-27. Records published for both sites March 1926 to September 1927.

REVISED RECORDS.--WSP 1737: 1927, 1935, 1943.

GAGE.--Water-stage recorder. Altitude of gage is 770.5 ft estimated from datum of gage 3,100 ft upstream. See WDR for Idaho 1966-68 for history of changes prior to Oct. 1, 1962.

REMARKS.--Records excellent. Diversions above station for irrigation of about 1,630 acres (1966 determination). Regulation of the North Fork Clearwater River at Ahsahka began on Sept. 27, 1971, when diversion tunnel at Dworshak Dam was closed.

AVERAGE DISCHARGE.--62 years (1910-13, 1925-84), 15,550 ft3/s, 11,270,000 acre-ft/yr (flows not adjusted for storage change in upstream reservoir).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 177,000 ft3/s May 29, 1948, gage height, 23.76 ft; maximum gage height, 27.77 ft Feb. 5, 1963, from floodmark (ice jam); minimum daily discharge, 500 ft3/s Jan. 9, 1937, Dec. 1, 1952.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1894 reached a stage of 20.5 ft, site and datum in use 1924-26, discharge, 138,000 ft3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 81,500 ft3/s May 31, gage height, 15.15 ft; minimum, 3,060 ft3/s Aug. 27, gage height, 3.06 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Jan. 3 to Apr. 23)

3.0	3000	9.0	27400
4.0	5220	11.0	41800
5.0	8400	13.0	59000
7.0	16500	15.0	79000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5300	4350	12300	6370	9800	13500	21600	23200	61700	26200	6920	6570
2	3520	4760	12400	4250	8960	17100	20600	23900	53100	27000	4900	5700
3	3740	5690	13200	6300	8500	17700	19200	25500	51600	28200	4820	5050
4	4250	6530	13200	7280	8140	16900	18800	25900	49800	20900	4710	4480
5	4360	8320	13100	12500	7820	14900	19100	24900	53200	19900	4490	7300
6	4660	8500	12900	12400	7650	12200	23100	25100	54100	19200	4540	11500
7	4760	7960	12800	12500	7620	13900	23500	24500	55700	18100	5040	11900
8	4510	7930	13000	11800	7820	10300	23200	21100	59800	16500	5650	9280
9	4400	6370	13000	10600	7720	9630	25300	23400	55800	16000	4410	9380
10	4710	5920	13300	9320	7580	11600	23500	27900	52800	18300	4210	10300
11	5580	6980	14400	5850	7410	16300	24000	26800	51600	17500	4110	12300
12	6220	9690	14300	9250	7250	17000	22200	25000	51500	16200	4010	11900
13	4970	9910	10700	9990	9610	16000	21500	29600	53100	16400	3920	11500
14	3940	9360	7890	12900	13200	21200	20400	41300	57500	12400	3910	11600
15	4060	8960	9420	11900	11800	26200	21000	58700	59400	10400	3810	8460
16	4250	9580	8280	11700	10700	21500	25200	54600	61200	13400	3710	7160
17	4330	10600	6880	14300	9990	19700	32800	45500	62200	12800	3660	10000
18	4760	9580	7860	13900	9070	18300	37700	38300	57100	11100	3670	11500
19	4600	11600	9690	13000	8420	16200	39200	34800	53300	9050	3610	11400
20	5110	14200	12500	13000	8000	21600	38400	39500	30500	8550	3500	11400
21	5460	14000	12000	13300	7890	34600	35200	69900	61000	8070	9210	11600
22	5220	13700	11400	6250	8100	37900	31700	65900	61500	7670	10000	11500
23	6900	13100	11200	10400	7820	32600	32300	65800	48700	7350	11500	10400
24	6070	12900	11200	9390	7620	31600	32400	51400	45900	7070	6630	10600
25	6750	13700	11600	16900	7580	30300	31600	64600	47200	7000	3260	10900
26	5810	13800	12600	18300	7690	29200	29200	61200	69200	6880	3240	12100
27	5000	13500	12600	15200	8600	27700	27200	63400	45600	8060	3200	10200
28	4840	13500	12800	13000	13100	25400	25500	63200	43000	11600	4540	11000
29	6740	13600	12700	11800	13200	24600	24300	65200	40600	11300	5920	6370
30	6690	13000	12700	10800	---	23200	23300	57000	32800	11700	6520	4090
31	6560	---	13200	10100	---	22200	---	75700	---	14000	3840	---
TOTAL	150070	301790	364120	343790	258660	650630	793000	1182600	1580300	438830	153260	285620
MEAN	4841	10060	11750	11090	8919	20990	26430	38150	52680	14160	4944	9521
MAX	6750	14200	14600	18300	13200	37900	39200	75700	62200	28200	11500	12300
MIN	3520	4350	6880	4250	7250	9430	18800	21100	32800	6880	3200	4090
AC-FT	297700	598600	722200	681900	513100	1291000	1573000	2346000	3135000	870400	304000	566500

CAL YR 1983 TOTAL 5048930 MEAN 13830 MAX 54800 MIN 3300 AC-FT10015000
WTR YR 1984 TOTAL 6502860 MEAN 17770 MAX 75700 MIN 3200 AC-FT12898000

13342500 CLEARWATER RIVER AT SPALDING, ID--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959-60, 1968 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1959 to current year.
INSTRUMENTATION.--Temperature recorder since October 1959.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 26.0°C Aug. 13, 1963; minimum, 0.0°C on several days during winter months.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 24.0°C Aug. 2; minimum, 0.5°C Jan. 22-23, 25-27.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
NOV 16...	1300	10500	47	7.2	9.5	8.5	11.6	103	110	470	14
JAN 19...	1230	13000	44	6.9	-5.0	1.0	13.9	99	110	K3	14
MAR 23...	0930	33100	90	7.3	5.5	5.0	12.6	101	K1200	350	19
MAY 23...	1200	44900	63	7.3	15.0	10.0	11.2	102	--	800	9
JUL 25...	1100	6940	52	8.1	35.5	21.0	--	--	--	K9	12
SEP 24...	1300	12600	57	7.9	15.0	11.0	10.7	99	190	140	13

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV 16...	4.1	.88	2.0	23	.2	.70	19	2.6	.60	<.10	11
JAN 19...	4.2	.93	2.0	22	.2	.70	19	2.1	.50	.10	13
MAR 23...	4.9	1.3	2.6	23	.3	1.0	20	6.9	.80	<.10	19
MAY 23...	2.8	.60	1.7	27	.3	.50	11	2.7	.50	<.10	12
JUL 25...	3.5	.70	2.2	27	.3	.80	14	1.7	.50	.10	11
SEP 24...	3.8	.80	1.7	21	.2	1.1	14	2.7	.50	<.10	11

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 16...	29	34	.04	822	<.10	.050	.80	<.010	<.010	<.010
JAN 19...	29	35	.04	1020	.12	.030	.20	<.010	<.010	<.010
MAR 23...	61	49	.08	5450	.51	.040	.40	.050	.040	.050
MAY 23...	39	28	.05	4730	<.10	.070	.20	.010	.010	.020
JUL 25...	30	29	.04	562	<.10	.050	.40	.020	.010	<.010
SEP 24...	29	30	.04	987	<.10	.030	.20	<.010	<.010	<.010

K Results based on counts outside ideal colony range.

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13342500 CLEARWATER RIVER AT SPALDING, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ARSENIC DIS- SOLVED (UG/L AS AS)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV										
16...	<1	70	12	<.5	<1	<1	<3	3	41	1
MAR										
23...	<1	370	21	.6	<1	<1	<3	4	220	1
MAY										
23...	<1	60	11	2	<1	<1	<3	7	49	<1
SEP										
24...	<1	10	12	1	<1	<1	<3	7	18	2

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV										
16...	18	1	.2	<10	<1	<1	<1	29	<6	6
MAR										
23...	<4	6	.2	<10	<1	<1	<1	35	<6	22
MAY										
23...	6	2	.1	<10	<1	<1	<1	23	<6	13
SEP										
24...	4	2	<.1	<10	2	<1	<1	26	<6	12

DATE	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV		
16...	4	--
JAN		
19...	5	--
MAY		
23...	22	53
JUL		
25...	2	--
SEP		
24...	3	--

13342300 CLEARWATER RIVER AT SPALDING, ID--CONTINUED

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14.0	13.0	10.5	10.0			---	---	1.5	1.5	4.5	4.0
2	14.0	13.0	10.5	10.0			---	---	1.5	1.5	5.0	4.5
3	13.5	13.0	10.5	10.5			---	---	1.5	1.5	5.0	4.5
4	13.5	13.0	10.5	10.5			---	---	1.5	1.5	5.0	4.5
5	13.5	13.0	10.5	10.5			---	---	1.5	1.5	5.0	4.5
6	13.5	13.0	10.5	10.5			---	---	1.5	1.5	5.0	4.5
7	13.0	12.0	10.5	10.0			---	---	2.0	1.5	5.0	4.0
8	13.0	12.0	10.0	9.5			---	---	3.0	2.0	5.0	5.0
9	13.0	12.0	9.5	9.0			---	---	2.0	1.5	6.0	5.0
10	13.0	13.0	9.0	8.5			---	---	2.0	2.0	6.0	5.5
11	13.0	12.0	9.0	8.5			---	---	3.0	2.0	6.0	5.5
12	12.0	12.0	9.0	9.0			---	---	3.0	3.0	6.0	5.5
13	12.0	12.0	9.0	8.5			---	---	3.5	3.0	5.5	5.0
14	12.0	12.0	8.5	8.5			---	---	3.5	3.5	5.5	5.0
15	12.0	12.0	8.5	8.5			---	---	3.5	3.5	5.5	5.0
16	12.0	11.0	---	---			---	---	3.5	3.5	6.0	5.0
17	11.5	11.5	---	---			---	---	4.0	3.5	6.0	5.5
18	12.0	11.5	---	---			---	---	4.0	3.0	5.5	5.5
19	12.0	11.0	---	---			1.0	1.0	3.5	3.0	6.0	5.5
20	11.5	11.0	---	---			1.0	1.0	3.5	3.5	7.0	6.0
21	11.5	11.5	---	---			1.0	1.0	3.5	3.5	6.5	5.5
22	11.5	11.5	---	---			1.5	.5	3.5	3.5	6.0	5.5
23	12.0	11.5	---	---			1.5	.5	4.0	3.5	6.0	5.5
24	11.5	10.5	---	---			1.5	1.0	4.0	4.0	5.5	5.5
25	11.0	10.5	---	---			1.0	.5	4.0	3.5	5.5	5.0
26	11.0	10.5	---	---			.5	.5	4.0	4.0	5.5	5.0
27	11.0	10.5	---	---			1.5	.5	4.5	4.0	6.0	5.5
28	11.0	10.0	---	---			1.5	1.0	4.5	4.0	5.5	5.0
29	11.0	10.5	---	---			1.5	1.5	4.5	4.0	5.5	5.0
30	11.0	11.0	---	---			2.0	1.5	---	---	6.5	5.0
31	11.0	10.5	---	---			2.0	1.5	---	---	7.0	5.5
MONTH	14.0	10.0	10.5	8.5			2.0	.5	4.5	1.5	7.0	4.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.0	6.0	9.0	8.0	---	---	14.0	14.0	21.0	16.0	---	---
2	7.0	6.0	10.0	8.5	---	---	14.5	14.0	24.0	21.0	---	---
3	6.5	6.0	9.5	9.0	---	---	15.5	14.5	23.5	22.0	---	---
4	7.0	6.0	9.0	8.0	---	---	16.5	15.5	23.5	22.0	---	---
5	7.0	6.5	9.0	8.5	---	---	18.0	16.0	23.0	21.5	---	---
6	8.0	6.5	9.5	8.5	---	---	18.5	17.0	23.5	21.0	---	---
7	7.0	6.0	10.0	8.5	---	---	18.5	17.0	22.0	20.0	---	---
8	6.5	6.0	10.5	9.0	---	---	18.5	16.5	22.0	20.0	---	---
9	7.0	6.0	10.5	9.5	---	---	18.5	16.0	22.0	18.0	---	---
10	6.5	6.0	10.5	9.5	---	---	18.0	15.5	23.0	21.0	---	---
11	6.0	6.0	9.5	9.5	---	---	18.5	16.0	23.5	20.5	---	---
12	7.0	6.0	10.5	9.5	---	---	19.5	16.0	23.0	21.0	---	---
13	8.0	6.0	11.0	10.0	---	---	19.5	15.5	21.5	19.0	---	---
14	9.0	6.5	11.0	9.0	---	---	20.5	15.5	21.0	19.0	---	---
15	9.5	7.0	9.0	7.0	---	---	21.0	18.5	21.5	19.0	---	---
16	9.5	9.0	8.5	8.0	---	---	20.5	17.0	21.5	19.5	---	---
17	9.0	8.0	9.5	8.5	---	---	20.5	16.5	22.0	20.0	---	---
18	8.0	7.0	11.0	9.5	---	---	21.0	18.5	22.0	20.0	---	---
19	9.0	7.0	11.0	10.5	---	---	22.0	18.5	21.5	19.5	---	---
20	8.0	7.0	10.5	10.0	11.5	11.0	22.0	20.5	21.5	19.0	---	---
21	8.0	7.0	10.5	9.5	11.5	11.0	21.5	20.0	20.5	15.5	---	---
22	9.0	8.0	9.5	9.0	11.0	10.5	21.0	19.5	15.5	14.5	---	---
23	9.5	8.0	---	---	12.0	11.0	21.0	20.0	15.0	14.0	---	---
24	8.5	7.0	---	---	13.0	12.0	22.0	20.0	16.0	14.0	---	---
25	7.0	6.0	---	---	13.5	13.0	22.0	21.0	19.5	15.5	11.0	10.0
26	7.0	6.5	---	---	13.5	13.5	23.0	21.5	19.5	16.5	11.0	11.0
27	8.0	6.5	---	---	14.0	13.5	23.5	23.0	19.5	17.0	11.5	11.0
28	7.0	6.5	---	---	14.5	14.0	23.5	17.0	19.0	16.5	11.5	10.5
29	8.0	6.5	---	---	15.0	15.0	22.0	17.0	17.0	14.5	12.0	10.5
30	8.0	7.0	---	---	15.0	14.0	21.5	16.5	15.5	14.5	12.0	10.5
31	---	---	---	---	---	---	18.5	16.5	---	---	---	---
MONTH	9.5	6.0	11.0	7.0	15.0	10.5	23.5	14.0	24.0	14.0	12.0	10.0
YEAR	24.0	.5										

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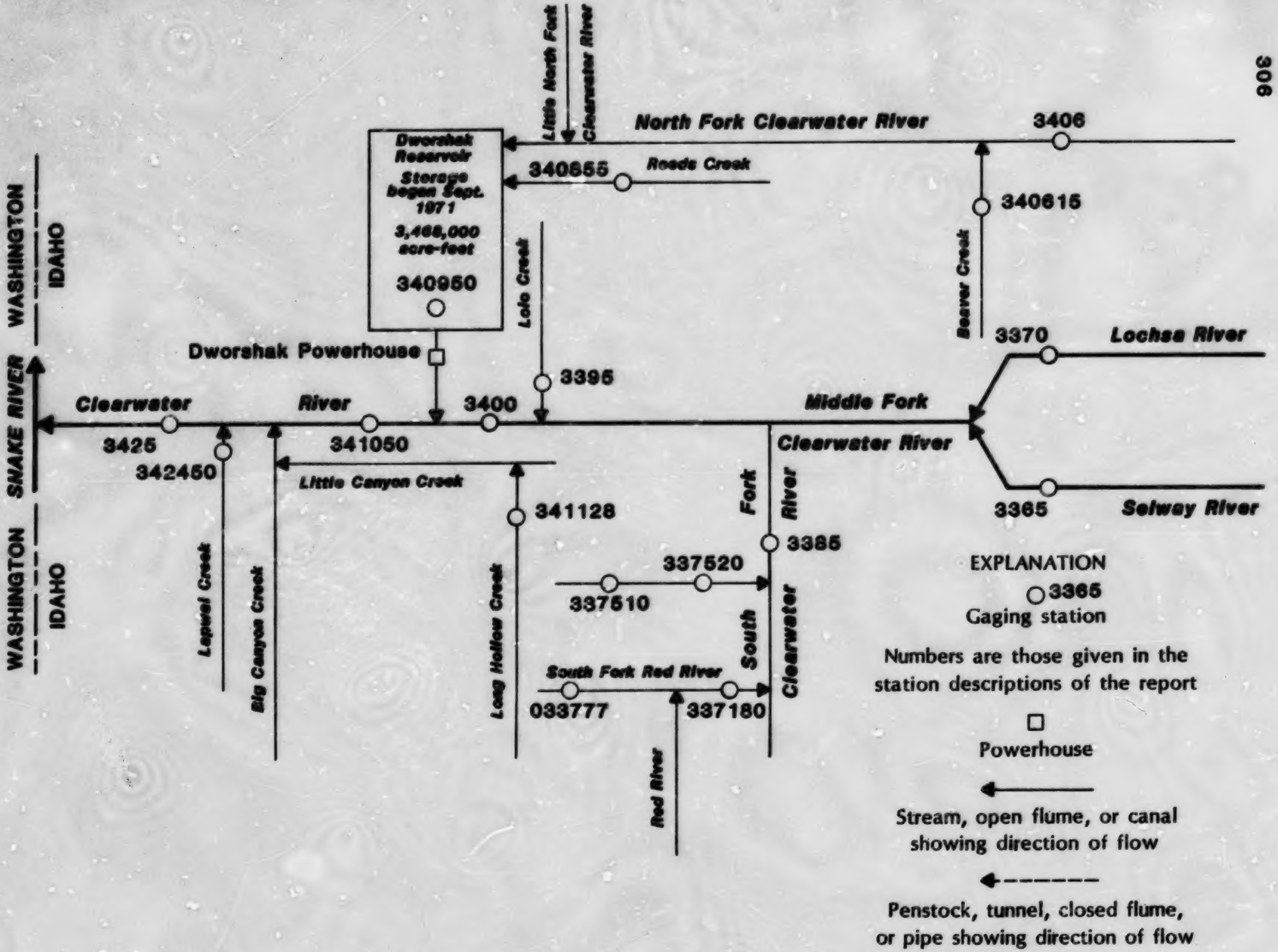
Little North Fork Clearwater River
North Fork Clearwater River
3406
Dworshak Reservoir
Storage began Sept. 1971
3,468,000 acre-feet
340950
340655
Reeds Creek
340615
Beaver Creek
Lolo Creek
WASHINGTON
IDAHO
SNAKE RIVER
Dworshak Powerhouse
3395
3370
Lochsa River
Clearwater
River
3400
Middle Fork
Clearwater River
3425
341050
342450
Little Canyon Creek
341128
3365
Selway River
Fork
River
3385
South
Clearwater
337520
337510
Lapwai Creek
Big Canyon Creek
Long Hollow Creek
South Fork Red River
033777
337180
Red River
EXPLANATION
3365
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow

Figure 22. -- Gaging stations in Clearwater River basin.

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13345000 PALOUSE RIVER NEAR POTLATCH, ID

LOCATION.--Lat 46°54'55", long 116°57'00", in NE1/4 NW1/4 sec.10, T.41 N., R.5 W., Latah County, Hydrologic Unit 17060108, on left bank 20 ft downstream from bridge on U.S. Highway 95, 1.0 mi downstream from Deep Creek, 2.0 mi west of Potlatch, and at mile 132.2.

DRAINAGE AREA.--317 mi2.

PERIOD OF RECORD.--October 1914 to September 1919, December 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,455.11 ft National Geodetic Vertical Datum of 1929 (levels by Idaho Department of Highways). October 1914 to September 1919 water-stage recorder at site 0.2 mi upstream at different datum.

REMARKS.--Records good. Low and medium flows regulated at millpond in Potlatch prior to 1974. Small amounts of water diverted for sprinkle irrigation systems above gage.

AVERAGE DISCHARGE.--22 years (1915-19, 1968-84), 280 ft3/s, 12.00 in./yr, 202,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft3/s Jan. 16, 1974, gage height, 21.08 ft; minimum daily, 0.07 ft3/s Sept. 24, 1973.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft3/s and maximum (*):

Date	Time	Discharge (ft3/s)	Gage height (ft)	Date	Time	Discharge (ft3/s)	Gage height (ft)
Jan. 25	2200	2650	12.40	Mar. 21	2030	2540	12.06
Mar. 15	0400	*3490	*13.70				

Minimum discharge, 9.1 ft3/s Aug. 30, 31, gage height, 4.15 ft.

Rating table (gage height, in feet, and discharge in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 1-7, Dec. 19 to Jan. 1, Jan. 15-22;
shifting-control method used Mar. 11-26, Apr. 8-9)

4.1	7.4	6.0	202
4.4	22	7.0	407
4.7	44	8.5	965
5.0	72	10.0	1450
5.5	130	12.0	2440
		14.0	3600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	22	50	96	427	392	657	228	230	94	32	15
2	13	27	46	112	358	682	625	263	199	85	28	19
3	13	30	45	344	310	574	574	263	177	75	24	16
4	13	55	45	1370	279	440	540	263	170	73	23	13
5	13	94	45	1040	252	392	628	237	303	66	22	12
6	13	56	47	956	250	357	958	237	397	58	22	11
7	13	124	48	692	241	357	805	239	366	57	19	13
8	13	83	52	623	246	380	1110	212	348	50	20	15
9	15	63	59	455	250	463	1120	214	712	51	19	16
10	20	55	391	398	246	788	1090	217	582	49	18	17
11	23	144	555	353	234	1670	963	217	502	46	17	17
12	19	167	344	314	348	1610	876	223	561	44	17	15
13	17	177	269	252	1320	1470	860	219	492	41	15	15
14	17	153	435	153	1520	1940	719	273	424	39	15	15
15	16	132	463	239	970	3030	707	307	346	38	13	14
16	16	152	293	275	823	1970	868	331	287	36	13	13
17	17	250	155	252	644	1690	980	285	241	34	13	13
18	19	243	170	216	490	1400	907	242	207	32	13	13
19	27	196	135	219	407	1230	792	225	181	29	13	11
20	26	232	115	199	377	1320	690	301	163	28	12	12
21	22	209	100	188	370	2150	583	272	257	27	12	9
22	22	156	86	191	333	2230	512	244	261	26	11	27
23	43	124	83	198	313	1660	482	394	202	25	10	29
24	45	117	84	876	317	1340	453	485	167	26	10	39
25	31	140	85	2130	307	1120	402	366	146	25	11	30
26	26	118	85	1530	273	1140	349	335	131	24	11	24
27	22	107	86	938	261	994	301	448	120	23	11	21
28	21	105	87	806	291	893	269	368	111	22	10	20
29	20	98	87	667	315	988	250	328	104	47	10	19
30	19	64	89	558	---	848	232	289	112	67	9.4	18
31	20	---	91	490	---	736	---	265	---	43	12	---
TOTAL	627	3693	4747	17240	12772	36254	20201	8790	8499	1383	485.4	530
MEAN	20.2	123	153	556	440	1169	673	284	283	44.6	15.7	17.7
MAX	45	250	555	2130	1520	3030	1120	485	712	94	32	39
MIN	13	22	45	96	234	357	232	212	104	22	9.4	11
CFSM	.06	.39	.48	1.75	1.39	3.69	2.12	.90	.89	.14	.05	.06
IN.	.07	.43	.56	2.02	1.50	4.25	2.37	1.03	.00	.16	.06	.06
AC-FT	1240	7330	9420	34200	25330	71910	40070	17430	16860	2740	963	1050

CAL YR 1983	TOTAL	100799	MEAN	276	MAX	3810	MIN	10	CFSM	.87	IN.	11.83	AC-FT	199900
WTR YR 1984	TOTAL	115221.4	MEAN	315	MAX	3030	MIN	9.4	CFSM	.99	IN.	13.52	AC-FT	228500

13346800 PARADISE CREEK AT UNIVERSITY OF IDAHO AT MOSCOW, ID

LOCATION.--Lat 46°43'53", long 117°01'24", in NW1/4 NE1/4 SE1/4 sec.12, T.39 N., R.6 W., Latah County, Hydrologic Unit 17060108, on left bank 36 ft upstream from county road crossing at northwest end of University of Idaho playing field, 0.5 mi upstream from Idaho-Washington State line, and 7.0 mi upstream from mouth.

DRAINAGE AREA.--17.7 mi2.

PERIOD OF RECORD.--October 1978 to current year. Prior to October 1979, published as "at Moscow."

GAGE.--Water-stage recorder. Datum of gage is 2,543.46 ft National Geodetic Vertical Datum of 1929 (levels by University of Idaho Engineering Dept.).

REMARKS.--Records good.

AVERAGE DISCHARGE.--6 years, 7.20 ft3/s, 5.52 in./yr, 5,220 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 430 ft3/s Feb. 26, 1979, gage height, 7.96 ft. Maximum gage height 9.16 ft Jan. 24, 1984. Minimum discharge, 0.10 ft3/s Nov. 27, 28, 1978, July 30, Aug. 16, 17, Oct. 1, 2, 3, 1980, Sept. 19, 22, 23, 1982; minimum gage height, 3.47 ft Nov. 27, 28, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge measured, 900 ft3/s Jan. 21, 1972, gage height, 9.87 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 429 ft3/s Jan. 24, gage height, 9.16 ft, only peak above base of 250 ft3/s. Minimum discharge, 0.12 ft3/s Sept. 13-14; gage height, 3.53 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 3, Dec. 23 to Jan. 1)

3.50	0.12	3.80	2.5	5.0	42
3.55	.24	3.90	4.3	5.5	70
3.60	.39	4.0	6.5	6.0	103
3.65	.67	4.2	11	7.0	197
3.70	1.1	4.5	21		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	1.6	.79	.90	4.6	31	13	6.2	1.3	.76	.35	.47
2	.34	1.4	.58	2.1	3.9	19	12	7.5	1.2	.80	.42	.29
3	.39	1.8	.52	29	3.8	13	10	4.1	1.2	.62	.39	.26
4	.30	5.9	.52	154	3.7	10	9.4	3.2	5.7	.60	.39	.24
5	.28	.74	.57	56	4.1	9.9	16	2.9	4.7	.56	1.3	.23
6	.30	7.4	.43	30	3.9	9.2	18	5.2	8.6	.58	.49	.74
7	.39	1.7	.69	20	4.0	8.2	9.8	3.9	4.0	.47	.33	.34
8	1.1	.74	1.0	19	4.9	7.7	30	2.9	3.4	.44	.36	.43
9	5.3	.60	6.1	10	4.2	8.9	14	2.6	3.3	.45	.35	.23
10	.74	6.4	35	9.4	3.7	13	15	2.4	3.7	.43	.41	.20
11	.34	8.6	16	9.9	3.8	13	12	2.7	2.2	.44	.32	.19
12	.34	8.3	12	11	25	11	15	2.3	2.6	.45	.28	.15
13	.28	6.4	12	8.2	78	15	11	2.7	2.7	.41	.33	.16
14	.28	4.1	18	4.1	21	43	9.2	2.7	2.1	.42	.31	.15
15	.26	5.4	15	3.0	14	24	3.4	2.4	2.0	.44	.29	.15
16	.24	9.2	8.2	1.9	17	18	7.7	2.9	1.9	.43	.32	.15
17	.39	8.0	4.3	1.4	12	20	8.7	2.1	1.9	.42	.32	.19
18	.26	4.0	3.0	.92	8.7	15	8.2	1.8	1.8	.43	.29	.18
19	.26	2.3	2.9	.74	7.3	18	9.2	2.9	1.6	.41	.23	.20
20	.28	5.4	2.5	.60	8.3	20	8.2	3.5	4.0	.40	.37	.77
21	.28	3.8	1.7	.51	11	49	6.5	2.1	7.7	.39	.28	.29
22	5.1	2.1	1.3	.90	8.4	21	5.8	2.6	3.7	.35	.33	.73
23	1.0	1.4	.80	8.1	11	19	4.9	8.8	2.2	.35	.30	.45
24	.30	4.4	.50	123	12	17	4.3	3.2	1.7	.39	.28	.21
25	.28	4.1	.45	119	12	19	4.5	2.2	1.4	.41	.22	.18
26	.28	2.0	.44	12	12	23	4.0	2.0	1.0	.38	.25	.16
27	.30	1.8	.43	11	14	17	3.4	1.9	.90	.43	.22	.18
28	.44	2.0	.43	9.0	13	25	3.2	1.6	.85	4.4	.34	.18
29	.54	1.5	.44	7.5	11	25	3.4	1.5	3.2	2.5	.26	.18
30	.60	1.0	.47	6.6	---	17	3.7	1.4	.85	.52	1.9	.17
31	2.1	---	.58	5.5	---	14	---	1.1	---	.41	5.0	---
TOTAL	23.63	114.78	147.54	680.17	340.3	572.9	282.5	95.2	84.20	20.50	17.36	8.45
MEAN	.76	3.83	4.77	21.9	11.7	18.5	9.62	3.07	2.81	.66	.56	.28
MAX	5.3	9.2	35	154	78	49	30	8.8	8.6	4.4	5.0	.77
MIN	.24	.60	.43	.51	3.7	7.7	3.2	1.1	.85	.35	.22	.15
AC-FT	47	228	293	1350	675	1140	572	189	167	41	34	17

CAL YR 1983	TOTAL	2538.00	MEAN	6.95	MAX	172	MIN	.26	AC-FT	5030
WTR YR 1984	TOTAL	2393.53	MEAN	6.54	MAX	154	MIN	.15	AC-FT	4750

13350448 COW CREEK AT GENESEE, ID

LOCATION.--Lat 46°32'48", long 116°55'37" in SW1/4 NW1/4 SE1/4, sec.14, T.37 N., R.5 W., Latah County, Hydrologic Unit 17060108 on upstream side of county road bridge 0.2 mi south of main road through Genesee, 0.7 mi upstream from Genesee sewage disposal facilities and 1.2 mi upstream from U.S. Highway 95.

DRAINAGE AREA.--34.3 mi2.

PERIOD OF RECORD.--October 1979 to July 1983, January 1984 to September 1984.

GAGE.--Wire-weight gage mounted on upstream guardrail and crest-stage gage on upstream left wingwall to record peaks. Altitude of gage is 2,660 ft, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 1,330 ft3/s Feb. 16, 1982, maximum gage height observed, 16.62 ft Feb. 14, 1982 (backwater from ice jam); minimum, no flow many days during 1980-81.

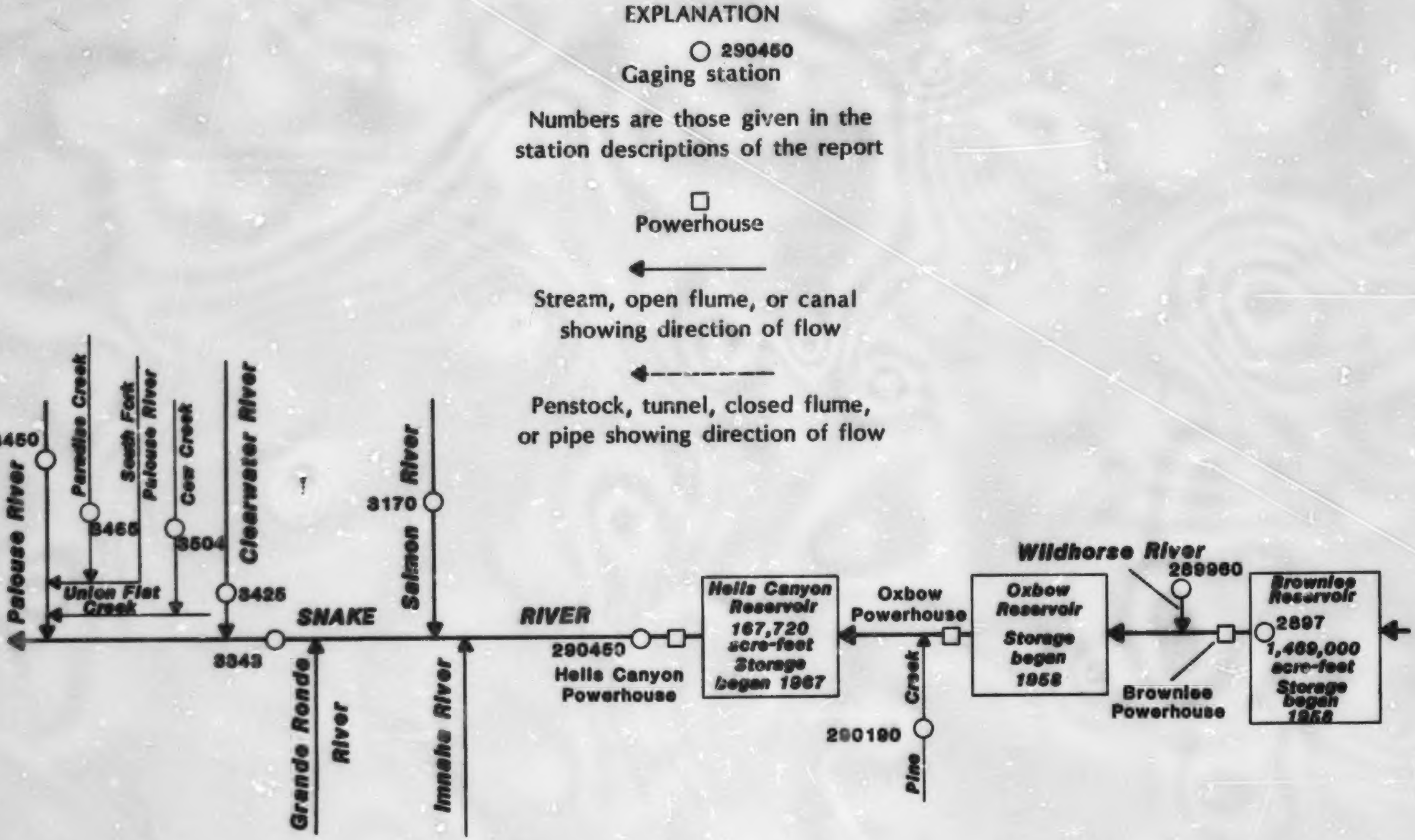
EXTREMES FOR CURRENT YEAR.--Maximum observed discharge, 1,020 ft3/s Jan. 25, gage height, 13.98 ft; minimum discharge observed, 0.04 ft3/s Aug. 28, 29, gage height 9.21 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Jan. 1, 2, 19, 22-24)

9.21	0.038	9.4	1.29
9.22	.054	9.5	2.75
9.23	.078	10.0	19.2
9.24	.103	10.4	44.5
9.26	.170	10.8	84.5
9.28	.255	11.0	110
9.30	.380	12.0	301
9.34	.670	13.0	610
		14.0	1060

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				6.4	16	45	19	7.6	2.1	.76	.45	.38
2				6.6	14	31	21	11	2.0	.76	.38	.32
3				7.2	10	21	20	7.6	2.0	.67	.38	.26
4				72	8.0	20	23	5.8	3.0	.67	.38	.21
5				96	12	16	28	6.4	3.7	.60	.32	.32
6				80	10	14	26	6.1	9.1	.60	.45	.45
7				46	12	13	24	5.6	4.2	.60	.38	.32
8				40	12	13	24	5.8	3.3	.60	.32	.32
9				31	12	14	23	5.6	3.0	.52	.26	.52
10				22	11	20	27	5.6	3.2	.52	.17	.45
11				20	10	21	20	5.3	3.2	.45	.17	.38
12				20	19	22	30	5.1	2.6	.45	.14	.21
13				19	210	26	16	5.3	3.0	.38	.10	.14
14				19	44	76	15	5.8	2.3	.45	.10	.10
15				9.8	26	32	14	5.8	2.0	.45	.14	.10
16				7.8	38	26	12	4.8	1.7	.38	.10	.14
17				6.6	21	25	14	4.0	1.7	.38	.08	.17
18				5.8	20	23	13	3.5	1.5	.38	.08	.21
19				4.4	19	24	16	3.3	1.4	.32	.08	.21
20				3.4	18	33	13	4.4	1.4	.32	.10	.38
21				3.5	19	79	12	3.5	3.5	.38	.08	.60
22				3.5	15	34	11	3.2	4.4	.32	.08	.45
23				3.9	13	32	8.8	9.4	4.0	.32	.10	.32
24				10	19	39	8.4	4.6	2.3	.32	.10	.60
25				960	15	29	7.6	3.7	1.7	.26	.14	.52
26				80	19	23	7.0	4.0	1.3	.52	.10	.45
27				146	24	23	6.1	3.7	.96	.45	.05	.45
28				30	22	25	5.8	3.3	.76	.38	.04	.52
29				24	20	29	5.1	3.0	.67	.67	.04	.52
30				27	---	26	6.4	4.2	.76	.52	.14	.52
31				21	---	24	---	2.4	---	.45	.32	---
TOTAL				1831.9	708.0	878	476.2	159.4	76.75	14.85	5.77	10.74
MEAN				59.1	24.4	28.3	15.9	5.14	2.56	.48	.19	.36
MAX				960	210	79	30	11	9.1	.76	.45	.60
MIN				3.4	8.0	13	5.1	2.4	.67	.26	.04	.10
AC-FT				3630	1400	1740	945	316	152	29	11	21


EXPLANATION

○ 290450
Gaging station

Numbers are those given in the station descriptions of the report

□
Powerhouse

Stream, open flume, or canal showing direction of flow

Penstock, tunnel, closed flume, or pipe showing direction of flow

Palouse River
3450
Paradise Creek
3465
South Fork Palouse River
Cow Creek
3504
Clearwater River
3425
Union Flat Creek
3343
SNAKE
Grande Ronde River
Salmon River
3170
Imnaha River
RIVER
290450
Hells Canyon Powerhouse
Hells Canyon Reservoir
167,720 acre-feet
Storage began 1967
Oxbow Powerhouse
Pine Creek
290190
Oxbow Reservoir
Storage began 1958
Wildhorse River
289960
Brownlee Powerhouse
Brownlee Reservoir
2897
1,469,000 acre-feet
Storage began 1958

Figure 23. -- Gaging station in Snake River basin between Brownlee Reservoir and the mouth of the Palouse River.

DISCHARGE AT MISCELLANEOUS SITES

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	 Discharge (ft^3/s)
		Kootenai River basin				
Kootenai River 12322900	Columbia River	Lat 49°29'40", long 117°20'04", at Grohman Narrows, 2 mi below Nelson, B.C.; measurements referred to gage 10 at Nelson (sta. 8NJ-9 of Water Survey of Canada).	17,700	1932-79, 1981-83	2-23-84 6-28-84 9-13-84	17,400 52,100 18,000
		Spokane River basin				
Boulder Creek 12414195	Marble Creek	Lat 47°13'36", long 116°01'05", in [illegible] sec.24, T.45 N., R.3 E., Hydrologic Unit 17010304, Shoshone County, on left bank 60 ft upstream from mouth, 200 ft upstream from Marble Creek gage, 2 mi upstream from St. Joe River, and 8 mi southeast of Calder.	17.2	1983	11- 1-83 1-12-84 3- 7-84 3-15-84 5-10-84 7-19-84 9-18-84	10.3 44.6 28.8 59.0 62.4 19.5 6.53
		Hoback River basin				
Granite Creek 13019430	Hoback River	Lat 43°17'44", long 110°29'58", in sec.35, T.39 N., R.114 W., Teton County at Chevron Oil Co. bridge crossing, 1.0 mi upstream of Little Granite Creek confluence, 2.5 mi upstream from mouth and 12.3 mi east of Hoback Junction on U.S. Highway 187/189.	—	1983	5-11-84 5-17-84 5-23-84 5-31-84 5- 8-84 5-13-84 6-22-84 6-29-84 7- 5-84 7-12-84 7-18-84 8-15-84 9-11-84	88.3 381 398 848 345 275 770 862 720 491 397 156 107
		Henrys Fork basin				
Big Springs 13040500	Henrys Fork	Lat 44°29'52", long 111°15'33", in NE¼ sec. 33, T.14 N., R.44 E., Fremont County, 0.2 mi downstream from road bridge at Big Springs.	—	1924-25, 1977, 1983	11-14-83	200
Robinson Creek Tributary 13044510	Robinson Creek	Lat 44°15'02", long 111°02'11", T.11 N., R.45 E., Fremont County, Yellowstone National Park, just above confluence with Robinson Creek.	—	—	2- 2-84	0.97
Robinson Creek 13044520	Warm River	Lat 44°11'28", long 111°04'05", T.10 N., R.45 E., Fremont County, Yellowstone National Park, just above confluence with Little Robinson Creek.	—	—	9-28-84	47.6
Little Robinson Creek 13044525	.....do.....	Lat 44°11'27", long 111°04'50", T.10 N., R.45 E., Fremont County, Yellowstone National Park, just above confluence with Robinson Creek.	—	—	9-28-84	4.47
Falls River 13046513	Henrys Fork	Lat 44°08'21", long 110°55'47", T.48 N., R.118 W., Yellowstone National Park, 75 ft above confluence with Calf Creek.	—	—	9-28-84	139
Calf Creek 13046516	.....do.....	Lat 44°08'25", long 110°55'45", T.48 N., R.118 W., Yellowstone National Park, 100 ft above confluence with Falls River.	—	—	9-28-84	2.50
Falls River 13046518	.....do.....	Lat 44°08'52", long 110°57'26", T.48 N., R.118 W., Yellowstone National Park, 150 ft above confluence with Mountain Ash Creek.	—	—	9-28-84	160
Mountain Ash Creek 13046520	Falls River	Lat 44°10'30", long 110°53'54", T.49 N., R.117 W., Yellowstone National Park, above confluence with Proposition Creek.	—	—	2- 1-84	73.6
Do........ 13046525	.....do.....	Lat 44°08'54", long 110°57'55", T.48 N., R.118 W., Yellowstone National Park, 100 ft above confluence with Falls River.	—	—	9-28-84	143

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Henrys Fork basin--Continued				
Falls River 13046530	Henrys Fork	Lat 44°08'57", long 110°59'42", T.48 N., R.118 W., Teton County, Yellowstone National Park, 200 ft above confluence with Bechler River near Cave Falls.	—	—	11-27-84	277
Bechler River 13046600	Falls River	Lat 44°13'36", long 110°58'24", T.49 N., R.118 W., Yellowstone National Park, above confluence with Ousel Creek.	—	—	2- 1-84	145
Boundary Creek Tributary 1 13046630	Boundary Creek	Lat 44°18'07", long 111°02'23", T.49 N., R.118 W., Teton County, Yellowstone National Park, 50 ft below confluence of thermal area, also known as Trailside Creek.	—	—	11- 9-83 1-31-84	0.52 .33
Boundary Creek Tributary 2 13046633	.....do.....	Lat 44°18'01", long 111°02'28", T.49 N., R.118 W., Teton County, Yellowstone National Park, also known as the main thermal area at the Monitor Creek site.	—	—	11- 9-83 1-31-84	0.09 .03
Boundary Creek Tributary 3 13046636	.....do.....	Lat 44°18'02", long 111°02'35", T.49 N., R.118 W., Teton County, Yellowstone National Park, 5 ft below waterfall, also known as Monitor Creek above the weir.	—	—	11- 9-83 1-31-84	0.94 .14
Boundary Creek Tributary 4 13046639	.....do.....	Lat 44°18'01", long 111°02'36", T.49 N., R.118 W., Teton County, Yellowstone National Park, 10 ft below weir, also known as Monitor Creek below the weir.	—	—	11- 9-83 1-31-84	0.15 .11
Boundary Creek 13046640	Bechler River	Lat 44°17'52", long 111°02'39", T.50 N., R.118 W., Teton County, Yellowstone National Park, below the upper thermal area midway through the meadow.	—	—	9-28-84	23.6
Boundary Creek Tributary 5 13046642	Boundary Creek	Lat 44°16'39", long 111°01'58", T.50 N., R.118 W., Teton County, Yellowstone National Park, 170 ft above confluence with Boundary Creek, also known as Middle Boundary Creek thermal area.	—	—	11- 9-83 1-31-84	0.37 .35
Boundary Creek Tributary 6 13046645	.....do.....	Lat 44°16'37", long 111°01'54", T.50 N., R.118 W., Teton County, Yellowstone National Park, thermal stream north of tributary 5 and also known as Middle Boundary Creek thermal area.	—	—	11- 9-83 1-31-84	0.24 .25
Boundary Creek Tributary 7 13046648	.....do.....	Lat 44°16'33", long 111°01'53", T.50 N., R.118 W., Teton County, Yellowstone National Park, 75 ft above confluence with Boundary Creek and also known as Middle Boundary Creek thermal area above swimming hole.	—	—	11- 9-83 1-31-84	0.52 .84
Boundary Creek Tributary 8 13046651	.....do.....	Lat 44°16'32", long 111°01'49", T.50 N., R.118 W., Teton County, Yellowstone National Park, 80 ft above confluence with Boundary Creek and also known as the southernmost thermal stream of the Middle Boundary Creek thermal area.	—	—	11- 9-83 1-31-84	0.83 .61
Boundary Creek Tributary 9 13046653	.....do.....	Lat 44°16'02", long 111°01'24", T.50 N., R.118 W., Teton County, Yellowstone National Park, below the Silver Scarf thermal area, and also known as the main thermal spring from the Silver Scarf thermal area.	—	—	11- 9-83	9.12
Boundary Creek Tributary 10 13046655	.....do.....	Lat 44°15'59", long 111°01'26", T.50 N., R.118 W., Teton County, Yellowstone National Park, 600 ft downstream from Boundary Creek tributary 9, and also known as a main thermal spring from the Silver Scarf thermal area.	—	—	1-31-84 9-28-84	9.35 10.7
Boundary Creek 13046660	Bechler River	Lat 44°14'46", long 111°01'34", T.50 N., R.118 W., Teton County, Yellowstone National Park, below Dunanda Falls and above confluence with Silver Scarf Creek.	—	—	9-28-84	34.5

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Henrys Fork basin—Continued				
Boundary Creek 13046675	Bechler River	Lat 44°12'25", long 111°00'40", T.49 N., R.118 W., Teton County, Yellowstone National Park, 30 ft above the upper Boundary Creek bridge in the upper Bechler Meadows.	—	—	2- 2-84	83.3
Bechler River 13046685	Falls River	Lat 44°08'52", long 110°59'48", T.48 N., R.118 W., Teton County, Yellowstone National Park, 100 ft above confluence with Falls River near Cave Falls.	—	—	11-27-84	351
		Snake River basin				
Diggie Creek 13069506	Snake River	Lat 43°05'39", long 112°32'26", in NE¼ sec.7, T.4 S., R.34 E., Bingham County, on left bank of Snake River, 2 mi south and 3.5 mi east of Pingree.	—	1977, 1979	3-28-80 5-21-80 7-22-80 9-18-80 11-14-80 1-14-81 4-11-84	261 262 223 261 243 240 295
Thorn Springs 13069507	.....do.....	Lat 43°05'00", long 112°33'13", in SE¼ sec.11, T.4 S., R.33 E., Bingham County, 2.5 mi south and 2 mi east of Pingree.	—	1977, 1980-81	4-16-84	5.08
Jeff Cabin Creek 13069508	.....do.....	Lat 43°04'03", long 112°33'01", in SW¼ sec.13, T.4 S., R.33 E., 150 ft below road crossing, and 9 mi west of Fort Hall.	—	1977	3-28-80 5-21-80 7-22-80 9-18-80 11-14-80 1-14-81 4-11-84	23.3 19.1 12.6 14.0 18.4 17.6 22.1
Pyle Springs 13069511	.....do.....	Lat 43°03'42", long 112°34'32", in NE¼ sec.32, T.4 S., R.33 E., Bingham County, 6 mi south of Pingree.	—	1926-29, 1932-77, 1980-81	4-16-84	26.2
McTucker Springs 13069515	.....do.....	Lat 43°02'03", long 112°37'33", in NW¼ sec.32, T.4 S., R.33 E., Bingham County, 6 mi south of Pingree.	—	1926-29, 1932-67, 1980-81	4-16-84	97.3
Hull Springs 13069520	.....do.....	Lat 43°02'49", long 112°39'39", in NE¼ sec.25, T.4 S., R.33 E., Bingham County, 2.5 mi southeast of Springfield.	—	1926-29, 1932-67, 1971-72, 1974-78, 1980-81	4-16-84	6.61
Tanner Springs 13069524	.....do.....	Lat 43°02'49", long 112°39'30", in NE¼SW¼NW¼ sec.25, T.4 S., R.32 E., Bingham County, 2.6 mi southeast of Springfield.	—	1980-81	4-16-84	2.55
Crystal Ditch 13069529	.....do.....	Lat 43°02'50", long 112°40'00", in NE¼SW¼NW¼ sec.25, T.4 S., R.32 E., Bingham County, 2.45 mi southeast of Springfield.	—	1980-81	4-16-84	0
Crystal Waste 13069532	.....do.....	Lat 42°02'52", long 112°40'49", in NW¼SW¼NE¼ sec.26, T.4 S., R.32 E., Bingham County, 2.3 mi south of Springfield.	—	1980-81	4-16-84	37.0
Danielson Springs 13069540	.....do.....	Lat 43°03'32", long 112°41'24", in NW¼SW¼ sec.23, T.4 S., R.32 E., Bingham County, 2.5 mi south of Springfield.	—	1926-29, 1932-77, 1980-81	4-16-84	53.2
Artesian Springs 13069543	.....do.....	Lat 43°03'38", long 112°43'15", in SW¼SW¼NW¼ sec.21, T.4 S., R.32 E., Bingham County, 1.7 mi northeast of Sterling.	—	1980-81	4-16-84	1.74
Sterling Waste 13069548	.....do.....	Lat 43°01'49", long 112°43'36", in NE¼NW¼SW¼ sec.33, T.4 S., R.32 E., Bingham County, 0.5 mi southeast of Sterling.	—	1980-81	4-16-84	11.6
Coburn Waste 13069552	.....do.....	Lat 43°01'03", long 112°45'00", in SW¼SW¼NE¼ sec.5, T.5 S., R.32 E., Bingham County, 1.7 mi southwest of Sterling.	—	1980-81	4-16-84	7.04
Aberdeen Wasteway 13069565	.....do.....	Lat 42°55'27", long 112°48'38", in SE¼SE¼ sec.3, T.6 S., R.31 E., Bingham County, 1.5 mi southeast of Aberdeen.	—	1980-81	4-16-84	3.41

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	 Discharge (ft³/s)
		Portneuf River basin				
Portneuf River 13075910	Snake River	Lat 42°56'40", long 112°32'40", in NE¼ sec.36, T.5 S., R.33 E., Bannock-Power County line, 4 mi west of Tyhee.	—	1926-29, 1932-78	4-13-84	1,020
Wide Creek 13075920	Portneuf River	Lat 42°57'30", long 112°34'10", in NW¼ sec.26, T.5 S., R.33 E., Power County, Fort Hall Indian Reservation, 8 mi northwest of Pocatello.	—	1926-29, 1932-78	4-22-80 7-21-80 9-17-80 1-13-81 4-10-84	49.5 46.5 45.6 45.6 49.1
Clear Creek 13075930	.....do.....	Lat 42°57'30", long 112°34'10", in SW¼ sec.11, T.5 S., R.33 E., Bannock County, just upstream from Ford Creek, and 7 mi west of Fort Hall.	—	1926-29, 1932-78	7-21-80 9-17-80 1-13-81 4-11-84	130 143 124 122
Ford Creek 13075940	Clear Creek	Lat 42°59'40", long 112°34'15", in SW¼ sec.11, T.5 S., R.33 E., Bannock County, just upstream from mouth, and 7 mi west of Fort Hall.	—	1926-29, 1932-78	7-21-80 9-17-80 1-13-81 4-11-84	5.56 6.21 6.70 4.21
Ross Fork Creek 13075960	.....do.....	Lat 42°59'10", long 112°33'50", near center of sec.14, T.5 S., R.33 E., Bannock County, 7 mi southwest of Fort Hall.	—	1926-29, 1932-78	3-28-80 5-21-80 7-21-80 9-17-80 1-13-81 4- 6-81 4-11-84	41.6 79.8 59.0 113 30 40.5 80.4
Triple Creek 13075963	.....do.....	Lat 42°58'36", long 112°32'50", in NW¼ sec.24, T.5 S., R.33 E., Bannock County.	—	1926-29, 1932-78	9-17-80 11-13-80 1-13-81 4-10-84	22.9 2.78 3.00d 1.53
Kinney Creek 13075970	Portneuf River	Lat 42°59'10", long 112°35'05", near center of sec.15, T.5 S., R.33 E., Bannock County, 8 mi west of Fort Hall.	—	1926-29, 1932-77	7-21-80 9-17-80 4-11-84	3.61 1.00d 14.0
Jimmy Drinks 13075973	.....do.....	Lat 42°57'39", long 112°34'34", in SE¼NE¼NE¼ sec.27, T.5 S., R.33 E., Power County, 7 mi northwest of Pocatello.	—	—	3-27-80 5-22-80 7-21-80 9-17-80 11-13-80 1-13-81 4-10-84	104 103 119 120 149 122 144
Spring Creek 13075985	.....do.....	Lat 42°00'09", long 112°36'01", in NE¼ sec.9, T.5 S., R.33 E., Bannock County, at road crossing, and 8 mi west of Fort Hall.	—	1926-29 1932-78	3-28-80 5-21-80 7-22-80 9-18-80 1-14-81 4- 6-81 4-11-84	414 435 398 470 447 282 506
Big Jimmy Creek 13075990	Spring Creek	Lat 43°00'47", long 112°36'04", in SE¼ sec.4, T.5 S., R.33 E., Bannock County, 8 mi west of Fort Hall.	—	1926-29, 1932-78	5-21-80 7-22-80 9-18-80 1-14-81 4-11-84	29.4 22.4 28.4 28 30.8
Bannock Creek 13076200	Portneuf River	Lat 42°53'10", long 112°38'30", near center of sec.20, T.6 S., R.33 E., Power County, Fort Hall Indian Reservation, at Highway 30N crossing, and 10 mi west of Pocatello.	413	1962-63, 1965, 1968-81	3-27-80 5-22-80 7-21-80 9-17-80 1-13-81 4-10-84	57.5 40.1 58.5 42.0 41.5 133
		Snake River basin—continued				
Tartar Waste 13076210	Snake River	Lat 42°52'30", long 112°51'09", in NW¼SE¼NE¼, sec.29, T.6 S., R.31 E., Bingham County, 4.8 mi southwest of Aberdeen.	—	1980-81	4-16-84	1.26
Schiltz Creek 13076215	.....do.....	Lat 42°51'15", long 112°51'50", in NW¼NE¼SE¼ sec. 32, T.6 S., R.31 E., Power County, 6.3 mi southwest of Aberdeen.	—	1980-81	4-16-84	0

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Snake River basin—Continued				
Seagull Bay Creek 13076250	Snake River	Lat 42°49'17", long 112°46'21", in SE¼SE¼SE¼ sec. 12, T.7 S., R.31 E., Power County, 4 mi northeast of American Falls.	—	—	4-10-84	0.30
Sunbeam Creek 13076280	.....do.....	Lat 42°48'20", long 112°49'04", in SE¼SW¼SW¼ sec. 15, T.7 S., R.31 E., Power County, 2 mi northeast of American Falls.	—	—	4-10-84	1.71
Cedar Creek 13076310	.....do.....	Lat 42°48'50", long 112°54'13", in SW¼SW¼NW¼ sec. 13, T.7 S., R.30 E., Power County, 2.3 mi northwest of American Falls.	—	1980-81	4-16-84	0
Rueger Springs 13076600	.....do.....	Lat 42°46'00", long 112°52'55", in SW¼ sec.31, T.8 S., R.31 E., Power County, at fish hatchery, and 0.9 mi downstream from American Falls Dam.	—	1927-29, 1932-53, 1961-75, 1977, 1980-81	4-16-84	23.8
		Raft River basin				
Raft River 13078205	.....do.....	Lat 42°04'13", long 113°26'37", in NW¼SE¼SW¼ sec.32, T.15 S., R.26 E., Cassia County, 300 ft downstream from Onemile Creek, 16 mi southwest of Malta.	433	1946-53, 1955-71, 1975-84	7- 5-84 8-21-84 9-11-84 9-27-84	76.9 25.8 19.9 19.6
		Goose Creek basin				
Goose Creek 13084000	.....do.....	Lat 42°12'10", long 113°54'40", in NW¼SE¼SE¼ sec.18, T.14 S., R.22 E., 0.5 mi downstream from Oakley Dam, and 4 mi southwest of Oakley.	670	1909-11	5-21-84 5-22-84	705 957
		Tributaries between Snake River at Milner and Salmon Falls Creek				
Devils Washbowl Spring 13089600	.....do.....	Lat 42°35'18", long 114°20'45", in NW¼SE¼ sec.4, T.10 S., R.18 E., Jerome County, at old abandoned powerplant, about 0.2 mi upstream from mouth on right bank of Snake River, 0.5 mi upstream from Twin Falls powerplant, and 3.5 mi north of Kimberly.	—	1902,1917, 1923-24, 1950-59, 1963-83	3-15-84	15.3
Devils Corral Spring (upper outlet) 13090100	.....do.....	Lat 42°35'38", long 114°21'55", in SE¼SE¼ sec.32, T.9 S., R.18 E., Jerome County, 100 ft above point where flow cascades into right bank of Snake River at mile 617.1, about 2 mi upstream from Shoshone Falls and powerplant, and 4 mi north of Kimberly.	—	1902, 1923-24, 1939, 1950-59, 1963-33	3-12-84	43.2
Devils Corral Spring (lower outlet) 13090101	.....do.....	Lat 42°36'01", long 114°22'30", in SE¼NW¼ sec.32, T.9 S., R.18 E., Jerome County, 0.1 mi upstream from mouth on right bank of Snake River, 0.7 mi northwest of upper outlet, and 4.5 mi north of Kimberly.	—	1902,1923, 1950-59, 1963-83	3-12-84	4.26
Unnamed Spring No. 1 13090300	.....do.....	Lat 42°36'30", long 114°23'36", in SW¼SE¼ sec.31, T.9 S., R.18 E., Jerome County, near mouth on right bank of Snake River, 0.5 mi upstream from Shoshone powerplant, and 4 mi northeast of Twin Falls.	—	1950-59, 1963-78, 1981-83	3-12-84	1.98
Unnamed Spring No. 2 13090350	.....do.....	Lat 42°35'52", long 114°23'55", in NW¼SW¼ sec.31, T.9 S., R.18 E., Jerome County, on right bank of Snake River just above Shoshone Falls and 4 mi northeast of Twin Falls.	—	1950-59, 1963-83	3-12-84	5.34
Blue Lakes Spring Outlet 13091500	.....do.....	Lat 42°36'30", long 114°28'34", in SW¼SW¼ sec. 28, T.9 S., R.17 E., Jerome County, at point of entry to right bank of Snake River, 4 mi north of Twin Falls, and at mile 610.3.	—	1902, 1913-14, 1917-20†, 1921-47, 1950-59, 1963-71, 1973-83	3-14-84	196
Warm Creek 13091700	.....do.....	Lat 42°37'15", long 114°29'55", in NW¼SW¼ sec. 29, T.9 S., R.17 E., Jerome County, 0.6 mi upstream from point of entry to right bank of Snake River, 1.5 mi northwest of Blue Lakes Spring Outlet, and 4.6 mi northwest of Twin Falls.	—	1903,1917, 1931, 1950-59, 1963-71, 1973-83	3-14-84	14.3

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Tributaries between Snake River at Milner and Salmon Falls Creek—Continued				
Crystal Springs 13093400	Snake River	Lat 42°37'36", long 114°38'32", sec.12, T.9 S., R.15 E., Gooding County, a series of springs along a 0.6 mi reach of the right bank of Snake River, 1 mi upstream from Niagara Springs, and 6.5 mi north of Filer.	—	1902,1917, 1919, 1924-25, 1931, 1950-59, 1963-83	3-14-84	470
Niagara Springs 13093700	.....do.....	Lat 42°39'46", long 114°40'24", in NW¼SW¼NW¼ sec. 11, T.9 S., R.15 E., Gooding County, in spring outlet channel 120 ft upstream from mouth, 880 ft downstream from source, 6 mi northeast of Buhl, and 599.1 mi upstream from mouth of Snake River.	—	1958-72†, 1973-83	3-13-84	292
Clear Lakes Spring Outlet 13094500	.....do.....	Lat 42°40'01", long 114°46'45", in SW¼SE¼ sec. 2, T.9 S., R.14 E., Gooding County, at Clear Lakes powerplant of Idaho Power Co. and 4.5 mi north of Buhl.	—	1902, 1913-14, 1917-21†, 1924,1926, 1937, 1950-59, 1963-83	3-15-84	511
Briggs Creek 13095200	.....do.....	Lat 42°40'20", long 114°49'00", in NW¼SE¼ sec. 4, T.9 S., R.14 E., Gooding County, 500 ft upstream from mouth on right bank of Snake River, 2 mi downstream from Clear Lake Springs outlet, and 6 mi northwest of Buhl.	—	1902,1913, 1917-20, 1924-25, 1931, 1950-59, 1963-83	3-13-84	105
Banbury Springs 13095300	.....do.....	Lat 42°41'31", long 114°49'11", in SE¼NW¼ sec. 33, T.8 S., R.14 E., Gooding County, at outlet on right bank of Snake River and 7 mi northwest of Buhl.	—	1902,1913, 1917, 1919-20, 1924-25, 1950-59, 1963-71, 1973-83	3-13-84	129
Unnamed Spring 13095350	.....do.....	Lat 42°41'51", long 114°49'21", in SE¼SW¼ sec. 28, T.8 S., R.14 E., Gooding County, on right bank of Snake River, 0.4 mi south of Blind Canyon Spring, and 7.5 mi northwest of Buhl.	—	1950-59, 1963-71, 1973-83	3-13-84	4.14
Blind Canyon 13095400	.....do.....	Lat 42°42'12", long 114°49'20", in SE¼NW¼ sec. 28, T.8 S., R.14 E., Gooding County, at outlet on right bank of Snake River, 0.2 mi upstream from Box Canyon Springs outlet, and 8 mi northwest of Buhl.	—	1902,1917, 1919, 1950-59, 1963-83	3-13-84	10.8
		Salmon Falls Creek basin				
Salmon Falls Creek 13106510	.....do.....	Lat 42°14'30", long 114°44'40", in NW¼ sec.6, T.14 S., R.15 E., 2 mi downstream of Salmon River Canal Co. reservoir and 8 mi northwest of Rogerson.	—	1912,1946, 1953-58	4-18-84	19.9
		Mud Lake-Lost River basins				
West Camas Creek 13108200	Camas Creek	Lat 44°28'40", long 112°02'40", on southeast section line of sec.1, T.13 N., R.37 E., Clark County, 1.5 mi downstream from Pete Creek, 9 mi northwest of Kilgore, and 11 mi northeast of Spencer.	—	1957-58, 1973-78	11-14-83	24.9
Beaver Creek 13112300	.....do.....	Lat 44°28'40", long 112°13'30", SE¼ sec.4, T.13 N., R.36 E., Clark County, at Union Pacific Railroad bridge, 0.3 mi downstream from Humphrey, and 8.4 mi north of Spencer.	—	1957-58, 1973-78	11-10-83	18.9
Huntley Canyon 13112900	Beaver Creek	Lat 44°21'50", long 112°11'00", in SW¼ sec.14, T.12 N., R.36 E., at railroad crossing opposite the Spencer Mercantile Store at Spencer.	3.91	1961-67, 1978	11-10-83	1.34
Beaver Creek 13113000	Camas Creek	Lat 44°21'20", long 112°10'45", in NW¼SE¼ sec.23, T.12 N., R.36 E., Clark County, on left bank 62 ft upstream from State Highway 22, and 0.4 mi southeast of Spencer.	120	1938-52, 1968-82	11-10-83	55.7

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mud Lake-Lost River basins--Continued				
Beaver Creek 13113500	Camas Creek	Lat 44°11'10", long 112°14'08", in SW¼SE¼SW¼ sec. 21, T.10 N., R.36 E., on right bank 50 ft upstream of highway crossing at Dubois.	220	1983	10-25-83	43.4
					11-10-83	53.0
					12- 5-83	31.8
					5-16-84	1,070
Medicine Lodge Creek 13116000	.....do.....	Lat 44°17'30", long 112°30'05", in SW¼SE¼ sec.7, T.11 N., R.34 E., Clark County at Ellis Ranch, 4 mi upstream from Middle Creek, 6.5 mi southeast of Argora, and 16 mi northwest of Dubois.	165	1940-69, 1973-78	11-10-83	71.5
					1- 6-84	65.4
Lidy Hot Springs 13116950	.....do.....	Lat 44°07'39", long 112°32'40", in NW¼SW¼SE¼ sec.1, T.9 N., R.33 E., Clark County, upstream of State Highway 22 crossing, and 15 mi west of Dubois.	—	—	11-10-83	0.86
Birch Creek 13117020	Big Lost River	Lat 44°09'14", long 112°54'24", in NE¼SW¼ sec.32, T.10 N., R.30 E., Clark County, 40 ft upstream of State Highway 28 crossing, 0.2 mi downstream from Blue Dome Inn, 9 mi southeast of former Reno Post Office, and 34 mi west of Dubois.	380	1967-81	11- 9-83	86.3
					1- 6-84	83.0
Summit Creek above Barney Hot Springs 13117390	Little Lost River	Lat 44°16'32", long 113°27'23", near north end of line between sec.22 and 23, T.11 N., R.25 E., at road bridge above Barney Hot Springs, 12 mi southeast of Goldburg, 14 mi northwest of Clyde, and 4.6 mi northwest of Howe.	31.0	1959	11-17-83	16.1
					12-14-83	13.9
					1- 4-84	11.8
					1-18-84	11.8
					2- 9-84	13.0
					3- 8-84	12.8
					4- 4-84	13.6
					5- 8-84	18.0
					6- 5-84	16.4
					7-17-84	11.7
					8- 7-84	16.2
					9-11-84	16.1
					10-10-84	14.1
					11- 7-84	13.3
Barney Hot Springs 13117391	Summit Creek	Lat 44°16'08", long 113°26'58", in NW¼NE¼SW¼ sec. 23, T.11 N., R.25 E., 0.6 mi southeast of Pahsimeroi road crossing at Summit Creek, and 23 mi southeast of Patterson.	—	—	11-17-83	0.82
					12-14-83	1.78
					1- 4-84	.76
					1-18-84	.68
					2- 9-84	.74
					3- 8-84	.69
					4- 4-84	.74
					5- 8-84	.64
					6- 5-84	.67
					7-17-84	.63
					8- 7-84	.78
					9-11-84	.88
					10-10-84	.84
					11- 7-84	.54
Wet Creek 13118400	Little Lost River	Lat 44°02'49", long 113°27'00", in SW¼ sec.2, T.8 N., R.25 E., at Paus Creek road crossing, 12.1 mi northeast of Mackay, and 12.3 mi southwest of Clyde.	11.2	1959-61, 1962-71a	11-17-83	8.76
Do........ 13118445	.....do.....	Lat 44°08'40", long 113°21'45", in NW¼NE¼ sec.4, T.9 N., R.26 E., 0.3 mi upstream from Dry Creek Canal mouth, 5.9 mi west of Clyde, and 30.5 mi northwest of Howe.	—	1911-12, 1961	11-17-83	25.7
Big Spring Creek 13118900	.....do.....	Lat 44°01'55", long 113°12'20", in SE¼SW¼ sec. 11, T.8 N., R.27 E., 100 ft downstream from forks, 7.7 mi south of Clyde, and 19.8 mi northwest of Howe.	—	1911,1959	11-17-83	18.4
					12-13-83	18.5
					4- 4-84	13.2
					5- 8-84	11.8
					6- 5-84	20.9
					7-17-84	14.4
					8- 7-84	20.4
					9-11-84	15.6
					10-10-84	17.0
					11- 7-84	15.0
Little Lost River 13119000	Snake River	Lat 43°53'10", long 113°06'00", in SW¼SE¼ sec.34, T.7 N., R.28 E., Butte County, on left bank 0.2 mi upstream from diversion dam of Blaine County Investment Co., and 7 mi northwest of Howe.	703	1921-81†	4- 4-84	103

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mud Lake-Lost River basins--Continued				
Twin Bridges Creek 13120420	Big Lost River	Lat 44°57'10", long 114°06'10", in NW¼ sec.9, T.7 N., R.20 E., at State Highway 75 crossing, 0.3 mi upstream from mouth, 4.1 mi north of Wildhorse guard station, and 14.3 mi southwest of Chilly.	—	1967-68	11-18-83	13.3
Garden Creek 13120450	.....do.....	Lat 43°58'45", long 114°03'35", in SE¼ sec.35, T.8 N., R.20 E., at State Highway 75 crossing, 0.1 mi upstream from mouth, 6.2 mi north of Wildhorse guard station, and 11.6 mi southwest of Chilly.	—	1967-68	11-18-83	0.71
Big Lost River 13121500	Snake River	Lat 44°03'40", long 113°52'40", in NW¼ sec.5, T.8 N., R.22 E., at highway bridge, and 1.5 mi south of Chilly.	502	1920†,1921 1937,1981	11-16-83	312
					12- 3-83	220
					12-15-83	253
					4- 2-84	102
					8- 9-84	350
					9-13-84	147
					10-12-84	151
					11- 6-84	122
Sage Creek 13121580	Thousand Springs Creek	Lat 44°05'00", long 114°02'00", in SE¼NE¼ sec.25, T.9 N., R.20 E., above diversion, 7.4 mi southwest of Dickey, and 7.7 mi west of Chilly.	12.6b	1966-68	11-18-83	6.91
Willow Creek Springs 13121700	.....do.....	Lat 44°10'05", long 113°51'40", at center of sec. 28, T.10 N., R.22 E., at road ford, 0.25 mi below Freighter Spring, 3.1 mi northeast of Dickey, and 6.0 mi north of Chilly.	12.9b	1966-68	11-18-83	3.90
Willow Creek 13121750	.....do.....	Lat 44°08'22", long 113°55'13", in NW¼NE¼SW¼ sec. 6, T.9 N., R.22 E., at intersection of Double Springs Pass Road and U.S. Highway 93A, and 23 mi northwest of Mackay.	—	—	3- 9-84	3.01
					4- 3-84	4.37
					5- 8-84	3.50
					6- 7-84	2.80
					7-19-84	3.13
					8- 9-84	3.33
					9-12-84	4.43
					10-10-84	2.12
					11- 8-84	3.94
Anderson Spring 13121920	.....do.....	Lat 44°05'11", long 113°53'03", in SW¼NE¼NW¼ sec.30, T.9 N., R.22 E., at north base of Chilly Butte, 1.3 mi upstream from confluence with Thousand Springs Creek, and 24 mi northwest of Mackay.	—	—	3- 8-84	3.89
Whiskey Springs 13121950	.....do.....	Lat 44°05'30", long 113°50'50", in SW¼SW¼ sec.22, T.9 N., R.22 E., just downstream from springs at old stage stop along U.S. Highway 93A, 1.6 mi northeast of Chilly, and 4.0 mi southeast of Dickey.	—	1966-67	3- 8-84	0.71
Thousand Springs Creek 13122000	Big Lost River	Lat 44°04'05", long 113°50'25", in SE¼NW¼ sec.34, T.9 N., R.22 E., at State Highway 25 crossing, and 2.0 mi southeast of Chilly.	145	1911-14, 1920-22, 1966-68, 1977	11-16-83	87.7
					12- 3-83	51.4
					12-15-83	37.5
					1- 5-84	28.8
					1-19-84	35.9
					2- 8-84	66.7
					3- 8-84	70.6
					4- 3-84	122
					5- 8-84	55.7
					6- 7-84	118
					7-19-84	75.0
					8- 9-84	71.8
					8-22-84	56.8
					9-13-84	35.1
					10-12-84	35.0
					11- 8-84	34.0
Elkhorn Creek 13122100	Thousand Springs Creek	Lat 44°04'30", long 113°49'10", in SW¼ sec.26, T.9 N., R.22 E., above power line and 2.9 mi east of Chilly.	2.9b	1966-68	11-16-83	4.82

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Mud Lake-Lost River basins--Continued				
Lone Cedar Creek 13122400	Big Lost River	Lat 44°02'40", long 113°44'40", in NE¼ sec.8, T.8 N., R.23 E., above diversions, 2.5 mi northeast of U.S. Highway 93A, crossing of Lone Cedar Creek, 7.1 mi east of Chilly, and 11.1 mi northwest of Mackay.	4.1b	1966-68	11-16-83	3.29
Hamilton Springs 13124030	Warm Springs Creek	Lat 43°59'28", long 113°51'53", in NE¼NE¼ sec.29, T.8 N., R.22 E., at springs 5.7 mi south of Chilly, and 13.7 mi northwest of Mackay.	—	1968,1978	11-15-83	58.3
					12- 3-83	44.2
					12-15-83	46.0
					1- 5-84	41.7
					1-19-84	41.2
					2- 8-84	42.8
					3- 7-84	41.4
					4- 3-84	39.5
					5- 8-84	39.0
					6-10-84	43.3
					7-18-84	38.0
					8- 9-84	47.0
					9-13-84	44.4
					10-10-84	43.8
					11- 6-84	34.2
Upper Cedar Creek 13125800	Big Lost River	Lat 44°00'30", long 113°39'30", in NW¼SW¼ sec. 19, T.8 N., R.24 E., 0.1 mi upstream from diversion, 3.9 mi north of Mackay Dam, and 6.9 mi north of Mackay.	9.6b	1966-68	11-16-83	9.29
Alder Creek 13129800	.....do.....	Lat 43°49'40", long 113°36'10", in NW¼NW¼ sec. 27, T.6 N., R.24 E., on right bank 20 ft downstream from South Fork and 6 mi south of Mackay.	27.6	1966-68†, 1973, 1975-77	11-18-83	14.7
Antelope Creek 13130900	.....do.....	Lat 43°40'40", long 113°37'45", in SE¼NW¼ sec. 17, T.4 N., R.24 E., at Marcroft Ranch, 0.25 mi upstream from Willow Creek, and 14 mi southwest of Darlington.	93.4	1966-74†	12- 4-83	86.6
					12-16-83	49.3
					1- 3-84	67.2
					1-17-84	52.0
					2- 9-84	43.0
					3- 6-84	58.6
					4- 2-84	54.4
					5- 8-84	96.5
					7-19-84	96.6
					8-10-84	71.1
					9-10-84	52.1
					10- 9-84	41.5
					11- 6-84	39.7
Cherry Creek 13130920	Antelope Creek	Lat 43°44'00", long 113°39'15", in SE¼NE¼ sec. 25, T.5 N., R.23 E., at National Forest boundary, 4.4 mi northwest of Grouse School, and 18.6 mi west of Arco.	33.1	1966-68, 1977	4- 2-84	31.0
					7-19-84	22.4
					8-10-84	19.5
					9-10-84	14.7
					10- 9-84	12.5
					11- 6-84	10.4
Do........ 13130930	.....do.....	Lat 43°43'03", long 113°32'40", in NE¼NE¼SW¼ sec. 36, T.5 N., R.24 E., Custer County, 0.5 mi from confluence with Antelope Creek, 4 mi northeast of Grouse School, and 13.3 mi northwest of Arco.	—	—	12-16-83	22.0
					1- 3-84	37.3
					1-17-84	26.4
					2- 9-84	27.6
					3- 6-84	29.9
Champagne Creek 13132505	Big Lost River	Lat 43°34'38", long 113°34'44", in NW¼SE¼NE¼ sec. 22, T.3 N., R.24 E., Butte County, about 14.5 mi southwest of Arco.	—	1981a	11-15-83	0.38
		Tributaries to Snake River from Thousand Springs to Big Wood River				
Sand Springs Creek 13132600	Snake River	Lat 42°43'36", long 114°50'00", in SE¼ sec.17, T.8 S., R.14 E., Gooding County, on right bank of Snake River, 0.5 mi upstream from mouth, and 7 mi southeast of Hagerman.	—	1902, 1912-13, 1917-21, 1924-25, 1932, 1954-59, 1963-83	3-15-84	86.8

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft³/s)
Tributaries to Snake River from Thousand Springs to Big Wood River--Continued						
Thousand Springs 13132800	Snake River	Lat 42°45', long 114°51'. Springs enter right bank of Snake River between mile 585.5 near line between secs.17 and 20, T.8 S., R.14 E., and mile 583.0, about 200 ft upstream from line between sec.1, T.8 S., R.13 E., and sec.6, T.8 S., R.14 E., Gooding County, 6 mi southwest of Hagerman.	—	1950-59, 1963-71, 1973-83	3-13-84	947
Riley Creek 13133800	.....do.....	Lat 42°45'46", long 114°51'31", in SE¼NE¼ sec.6, T.8 S., R.14 E., Gooding County, at Hagerman Hatchery of U.S. Fish & Wildlife Service, 100 ft downstream from small unnamed spring entering from right, [illegible]0 ft upstream from discontinued station below Lewis Spring. 300 ft downstream from mouth of Lewis Creek, about 2 mi upstream from mouth, and 4.2 mi southeast of Hagerman.	—	1950-59, 1963-83	3-15-84	60.9
Billingsley Creek 13134600	.....do.....	Lat 42°46'35", long 114°50'55", in SW¼SW¼NW¼ sec. 32, T.7 S., R.14 E., Gooding County, 0.1 mi downstream from head of creek, 3.8 mi southeast of Hagerman, and about 7.5 mi upstream from mouth.	—	1902, 1917,1931, 1950-59, 1963-83	3-12-84	44.5
Do........ 13134800	.....do.....	Lat 42°50'10", long 114°53'40", in SW¼NE¼ sec.11, T.7 S., R.13 E., Gooding County, 700 ft northwest of U.S. Highway 30 bridge and 1.4 mi north of Hagerman.	—	1902,1917, 1919, 1924-25, 1932, 1956-59, 1963-83	3-12-84	214
Birch Creek 13135100	.....do.....	Lat 42°51'10", long 114°53'30", in SE¼SE¼ sec.34, T.6 S., R.13 E., Gooding County, just downstream from left bank tributary, 0.5 mi upstream from entry to right bank of Snake River, 0.8 mi south of Big Wood River, and 2.5 mi north of Hagerman.	—	1917,1919, 1950-59, 1963-83	3-15-84	9.40
Big Wood River basin						
Big Wood River 13140800	.....do.....	Lat 43°19'45", long 114°19'10", in NE¼ sec.21, T.1 S., R.18 E., 0.8 mi upstream from gaging station, and about 10 mi southwest of Bellevue.	820b	1954	11- 8-84 12-13-84	163 42.3
Boise River basin						
Cottonwood Gulch 13205000	Boise River	Lat 43°37'11", long 116°11'04", in SE¼SW¼ sec. 2, T.3 N., R.2 E., on U.S. military reservation, and 1 mi east of Boise downtown Post Office.	16.0	1939-41†, 1942,1954, 1965,1967, 1969,1971	12-16-83 3-14-84	17.9 40.8
Anderson Creek 13210150	Blacks Creek	Lat 43°28'38", long 115°59'20", in SW¼NE¼SE¼ sec. 29, T.2 N., R.4 E., Ada County, 0.2 mi upstream from Blacks Creek, and about 15 mi southeast of Boise.	—	—	7-28-84	5,500c
Salmon River basin						
Warm Spring Creek 13298570	Salmon River	Lat 44°22'07", long 114°04'37", in NE¼NW¼SE¼ sec. 15, T.12 N., R.20 E., Custer County, at upstream end of culvert at U.S. Highway 93A crossing, and about 10 mi southeast of Challis.	71b	—	11-16-63 12- 1-83 12-15-83 4- 5-84	4.85 .91 4.45 7.02
Warm Spring 1329[illegible]580	Warm Spring Creek	Lat 44°22'06", long 114°05'14", in SE¼NW¼NW¼ sec.10, T.12 N., R.20 E., Custer County, 11 mi south of Willow Creek Summit, and 12 mi southeast of Challis.	—	—	11-14-83 11-16-83 12- 2-83 12-15-83 1- 5-84 1-20-84 2- 3-84 3- 8-84 4- 5-84 5- 9-84 6- 7-84 7-19-84 8- 4-84 8-22-84 9-12-84 10-12-84 11- 8-84	16.9 20.0 39.2 44.0 53.6 52.5 54.8 61.9 57.6 45.8 47.7 54.6 46.1 44.7 51.8 49.3 55.0

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Salmon River basin—Continued				
Double Springs 13299910	Pahsimeroi River	Lat 44°19'16", long 113°47'14", in SE¼SW¼SW¼ sec.31, T.12 N., R.23 E., 11 mi southwest of Goldburg, and 16 mi north of Dickey.	—	—	11-16-83 11-17-83 12- 1-83	5.86 5.52 5.45
Challis Creek near Challis at U.S. Highway 93 13299920	Salmon River	Lat 44°34'08", long 114°11'34", in SE¼NE¼SE¼ sec.3, T.14 N., R.19 E., Custer County, 0.6 mi upstream from mouth, and 4.5 mi north of Challis.	—	—	11-15-83 4- 5-84	39.7 24.7
Rock Springs 13300150	Pahsimeroi River	Lat 44°21'22", long 113°47'42", in SW¼SE¼NE¼ sec. 24, T.12 N., R.22 E., Custer County, and 9 mi southwest of Goldburg.	—	—	11-17-84	0.010
Grouse Creek 13301510	.....do.....	Lat 44°30'41", long 113°50'38", in SW¼SE¼SW¼ sec. 27, T.14 N., R.22 E., Custer County, 7.5 mi southeast of May.	—	1971,1980	11-17-83 12- 1-83	0.94 .20d
Sulphur Creek 13301530	.....do.....	Lat 44°30'29", long 113°56'40", in SE¼SW¼ sec.26, T.14 N., R.31 E., Custer County, 6 mi south of May.	9.28	1971	11-30-83 5- 8-84 6- 5-84 7-17-84 8- 7-84 8-23-84 9-11-84 10-11-84 11- 7-84	0.70 5.85 6.51 3.50d 3.68 3.95 2.08 2.14 1.90
Do........ 13301532	.....do.....	Lat 44°31'12", long 113°55'41", in SW¼NW¼NW¼ sec. 25, T.14 N., R.21 E., Custer County, 6.2 mi south of May.	—	—	11-30-83 5- 8-84 6- 5-84 7-17-84 8- 7-84 8-23-84 9-11-84 10-11-84 11- 7-84	27.3 20.0 23.3 25.2 21.0 24.2 27.7 22.0 25.2
Do........ 13301535	.....do.....	Lat 44°32'56", long 113°54'55", in SW¼NE¼NE¼ sec. 13, T.14 N., R.21 E., Custer County, at county road crossing, and 3.7 mi south of May.	—	1971	11-16-83 11-30-83 12-14-83 1- 4-84 1-18-84 2- 9-84 3- 8-84 4- 5-84 5- 8-84	25.3 25.1 25.6 23.2 23.5 25.5 26.0 21.8 20.1
Morse Creek 13301700	.....do.....	Lat 44°36'55", long 113°48'25", in SW¼ sec.24, T.15 N., R.22 E., Custer County, 0.6 mi upstream from mouth of canyon, and 5.2 mi east of May.	18.0	1962-71a, 1973-77a, 1980	11-17-83	9.63
Lawson Creek 13301890	.....do.....	Lat 44°35'40", long 113°58'19", in NE¼NW¼NE¼ sec. 33, T.15 N., R.21 E., Custer County, and 8 mi southeast of Ellis.	—	—	11-17-83	3.06
Pahsimeroi River 13302005	Salmon River	Lat 44°41'29", long 114°02'49", in NE¼SW¼NW¼ sec. 25, T.16 N., R.20 E., Lemhi County, at Ellis.	—	1971	3- 7-84 4- 5-84 5- 9-84 7-17-84 8-23-84 9-11-84	408 408 246 417 324 360
Transmountain diversion 13312300	Johnson Creek	Lat 44°32'30", long 115°34'00", in NE¼ sec.23, T.14 N., R.7 E., Valley County, Boise National Forest, about 0.5 mi downstream from point of transmountain Johnson Creek-Deadwood River diversion, 9 mi south of Landmark Ranger Station, and 11 mi southeast of Knox.	—	1937-41, 1951-52, 1954-65 1967,1969, 1971,1976, 1978-83	7-17-84	10.9

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Clearwater River basin				
South Fork Red River 13337177	Red River	Lat 45°42'28", long 115°20'36", in SW¼NW¼ sec.4, T.27 N., R.9 E., Hydrologic Unit 17060305, in Idaho County, on left bank just upstream from Red River Ranger Station, 950 ft upstream from bridge across the South Fork, 1,200 ft upstream from Red River, and approximately 9.2 mi southeast of Elk City.	—	—	8-23-84	11.0
Red River below South Fork 13337180	South Fork Clearwater River	Lat 45°42'13", long 115°20'44", in NW¼NW¼ sec.5, T.27 N., R.9 E., Hydrologic Unit 17060305, in Idaho County, on right bank 10 ft south of Red River Road, 600 ft downstream from the mouth of the South Fork Red River, and approximately 9 mi southeast of Elk City.	—	—	8-23-84	25.7
Crooked River 13337510	.....do.....	Lat 45°42'57", long 115°32'21", in NW¼SE¼ sec.31, T.28 N., R.7 E., Hydrologic Unit 17060305, in Idaho County, on left bank 300 ft southeast of Crooked River Road, 400 ft upstream from Five Mile Creek, 0.75 mi north of Orogrande, 12 mi south of Red River Road, and approximately 16 mi southwest of Elk City.	—	—	8-23-84	20.1
Crooked River near mouth 13337520	.....do.....	Lat 45°49'19", long 115°31'37", in SW¼NW¼, sec. 25, T.29 N., R.7 E., Hydrologic Unit 17060305, in Idaho County, on right bank 600 ft west of Crooked River Road, 1,000 ft south of the South Fork Clearwater River, and approximately 5.5 mi west of Elk City.	—	—	8-23-84	23.6
Sousie Creek 13340612	Beaver Creek	Lat 46°47'57", long 115°39'13", in SE¼SE¼NW¼ sec. 24, T.40 N., R.6 E., Clearwater County, 16 ft upstream from road about 500 ft upstream from mouth, at Sousie Creek trailer dump station, 4.2 mi southwest of Canyon Ranger Station, and 14 mi northeast of Headquarters.	1.77	1983	10-19-83 12-15-83 2-29-84 4-30-84 5-23-84 6-28-84 8-29-84	2.16 2.92 4.13 5.74 13.3 4.65 2.35
Snake Creek 13340859	Reeds Creek	Lat 46°36'29", long 115°56'29", in NW¼NE¼SW¼ sec. 27, T.38 N., R.4 E., Clearwater County, 100 ft downstream from Gold Creek, 1 mi upstream from Reeds Creek, 6 mi west of Headquarters, and 6.2 mi northwest of Hollywood.	18.1	1983	10-19-83 12-15-83 2-29-84 5- 2-84 5-23-84 6-20-84 8-29-84	5.74 24.9 17.5 59.1 90.0 17.7 2.99

† Operated as a continuous-record gaging station.
a Operated as a crest-stage station.
b Approximately.
c Slope area computation of peak flow.
d Estimated.

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Water-quality partial-record stations are particular sites where chemical-quality, biological, and/or sediment data are collected systematically over a period of years for use in hydrologic analyses. The data are collected usually less than quarterly.

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
TRIBUTARIES BETWEEN SNAKE RIVER AT MILNER AND SALMON FALLS CREEK												
13089500 - 10S 18E 04AAD1S DEVILS WASHBOWL SP NR KIMBERLY (LAT 42 35 18 LONG 114 20 45)												
MAR , 1984 15...	1025	15	627	8.5	9.0	13.5	57	23	46	29	1	6.5
13091000 - 09S 17E 28DBA1S BLUE LAKES SPR NR TWIN FALLS, ID (LAT 42 36 53 LONG 114 28 06)												
MAR , 1984 12...	1200	172	621	7.9	10.0	15.5	61	21	38	25	1	6.5
MAY 23...	1100	178	606	--	17.0	15.5	--	--	--	--	--	--
JUL 02...	1015	178	629	--	29.5	16.0	--	--	--	--	--	--
13095175 - 09S 14E 03CBA1S BRIGGS CR AT HEAD NR BUHL, IDAHO (LAT 42 40 26 LONG 114 48 30)												
MAR , 1984 13...	1300	105	<467	8.0	14.5	13.5	41	19	23	21	.8	3.7
BOX CANYON SPRINGS BASIN												
13095500 - BOX CANYON SPR NR WENDELL ID (LAT 42 42 25 LONG 114 48 45)												
MAR , 1984 13...	1230	357	407	8.2	17.5	14.5	37	17	21	21	.7	3.6
MAY 26...	0640	353	392	--	11.5	14.5	--	--	--	--	--	--
JUL 17...	0915	364	395	--	14.0	14.5	--	--	--	--	--	--
MUD LAKE-LOST RIVER BASIN												
13112000 - CAMAS CREEK AT CAMAS IDAHO (LAT 44 00 10 LONG 112 13 12)												
NOV , 1983 10...	1430	86	169	7.9	10.0	4.0	20	5.0	5.2	13	.3	3.5
13113000 - 12N-36E-23A BEAVER CR AT SPENCER ID (LAT 44 21 20 LONG 112 10 40)												
NOV , 1983 10...	1200	56	442	8.1	2.0	2.0	64	16	13	11	.4	2.0
13116950 - 9N-33E-11AAC1 LIDY HOT SP CR NR DUBOIS ID (LAT 44 07 39 LONG 112 32 40)												
NOV , 1983 10...	1315	.86	718	8.3	12.5	29.5	63	16	25	18	.8	15
13117390 - 11N-25E-22AAA SUMMIT CR AB BARNEY HOT SP NR GOLD (LAT 44 16 32 LONG 113 27 23)												
NOV , 1983 17...	1335	16	318	8.2	--	8.0	36	16	6.6	8	.2	1.1
13117391 - 11N-25E-23CAB1S BARNEY HOT SPRINGS (LAT 44 16 08 LONG 113 26 58)												
NOV , 1983 17...	1245	.82	--	8.2	--	27.0	36	19	8.7	10	.3	1.4
13118700 - LITTLE LOST RIVER BL WET CREEK NR HOWE ID (LAT 44 08 19 LONG 113 14 39)												
NOV , 1983 17...	1200	86	255	8.3	--	3.0	30	13	4.8	7	.2	.80
13118900 - 8N-27E-11CD BIG SP BL FORKS NR CLYDE ID (LAT 44 01 55 LONG 113 12 20)												
NOV , 1983 17...	0950	18	336	--	--	6.0	41	17	7.0	8	.2	1.0

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)
TRIBUTARIES BETWEEN SNAKE RIVER AT MILNER AND SALMON FALLS CREEK--Continued											
13089500 - 10S 18E 04AAD1S DEVILS WASHBOWL SP NR KIMBERLY (LAT 42 35 18 LONG 114 20 45)											
MAR , 1984											
15...	219	66	44	.40	41	410	.55	15	2.3	.020	--
13091000 - 09S 17E 28DBA1S BLUE LAKES SPR NR TWIN FALLS, ID (LAT 42 36 53 LONG 114 28 06)											
MAR , 1984											
12...	197	59	49	.40	39	410	.55	189	1.8	.010	--
MAY											
25...	--	--	49	--	--	--	--	--	--	--	--
JUL											
02...	--	--	48	--	--	--	--	--	--	--	--
13095175 - 09S 14E 03CBA1S BRIGGS CR AT HEAD NR BUHL, IDAHO (LAT 42 40 26 LONG 114 48 30)											
MAR , 1984											
13...	156	40	27	.60	34	310	.42	87	1.2	.020	--
BOX CANYON SPRINGS BASIN--Continued											
13095500 - BOX CANYON SPR NR WENDELL ID (LAT 42 42 25 LONG 114 48 45)											
MAR , 1984											
13...	149	35	21	.60	33	260	.36	255	.91	.020	--
MAY											
26...	--	--	19	--	--	--	--	--	--	--	--
JUL											
17...	--	--	19	--	--	--	--	--	--	--	--
MUD LAKE-LOST RIVER BASIN											
13112000 - CAMAS CREEK AT CAMAS IDAHO (LAT 44 00 10 LONG 112 13 12)											
NOV , 1983											
10...	81	6.3	2.3	.20	27	120	.16	27	<.10	.060	--
13113000 - 12N-36E-23A BEAVER CR AT SPENCER ID (LAT 44 21 20 LONG 112 10 40)											
NOV , 1983											
10...	241	11	6.5	.20	18	280	.37	42	.10	.030	--
13116950 - 9N-33E-11AAC1 LIDY HOT SP CR NR DUBOIS ID (LAT 44 07 39 LONG 112 32 40)											
NOV , 1983											
10...	142	120	7.6	4.8	36	370	.51	.87	<.10	<.010	--
13117390 - 11N-25E-22AAA SUMMIT CR AB BARNEY HOT SP NR GOLD (LAT 44 16 32 LONG 113 27 23)											
NOV , 1983											
17...	155	17	5.7	.20	11	190	.25	8.1	.20	<.010	--
13117391 - 11N-25E-23CAB1S BARNEY HOT SPRINGS (LAT 44 16 08 LONG 113 26 58)											
NOV , 1983											
17...	149	35	4.5	.20	17	210	.29	.47	.24	<.010	--
13118700 - LITTLE LOST RIVER BL WET CREEK NR HOWE ID (LAT 44 08 19 LONG 113 14 39)											
NOV , 1983											
17...	127	8.5	3.9	.10	12	150	.20	--	.30	<.010	--
13118900 - 8N-27E-11CD BIG SP BL FORKS NR CLYDE ID (LAT 44 01 55 LONG 113 12 20)											
NOV , 1983											
17...	166	12	8.5	.10	13	200	.27	9.7	.51	<.010	--

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
MUD LAKE-LOST RIVER BASIN --Continued												
13120000 - N FK BIG LOST RIVER AT WILD HORSE NR CHILLY ID (LAT 43 55 59 LONG 114 06 47)												
NOV , 1983												
03...	1650	120	207	--	--	4.0	29	8.4	3.0	6	.1	.80
18...	1230	119	220	8.3	--	1.5	29	8.9	3.0	6	.1	.80
13120240 - E F B LOST R AT ROSENKANCE RA NR CHILLY ID (LAT 43 53 45 LONG 113 59 00)												
NOV , 1983												
03...	1730	E250	146	--	--	4.0	20	3.6	3.6	11	.2	.70
13120420 - 7N-20E-9B TWIN BRIDGES CR NR CHILLY ID (LAT 43 57 10 LONG 114 06 10)												
NOV , 1983												
03...	1630	E15	208	--	--	3.5	24	7.4	8.7	17	.4	1.0
13120450 - 8N-20E-35D GARDEN CR NR CHILLY ID (LAT 43 58 45 LONG 114 03 35)												
NOV , 1983												
03...	1615	E.50	260	--	--	8.0	31	8.9	13	20	.5	1.3
13120500 - BIG LOST RIVER AT HOWELL RANCH NR CHILLY ID (LAT 43 59 54 LONG 114 01 12)												
NOV , 1983												
03...	1545	390	185	--	--	7.5	25	5.8	3.3	8	.2	.80
16...	1700	322	173	8.2	--	2.0	26	6.1	3.5	8	.2	.80
13121500 - BIG LOST R AT CHILLY BDG NR CHILLY ID (LAT 44 03 40 LONG 113 52 40)												
NOV , 1983												
02...	1130	270	156	7.3	--	2.5	26	5.6	3.4	8	.2	.90
16...	1600	312	187	8.3	--	--	27	6.3	3.5	7	.2	.80
13121580 - 9N-20E-25AD SAGE CR AB DIVERSION NR MACKAY (LAT 44 05 00 LONG 114 02 00)												
NOV , 1983												
18...	1430	7.1	236	8.1	--	--	24	12	8.0	13	.3	3.7
13121700 - 10N-22E-28CENTER WILLOW CR BL FREIGHTER SP (LAT 44 10 05 LONG 113 51 40)												
NOV , 1983												
03...	1200	3.0	269	--	--	5.0	37	8.6	2.5	4	.0	.90
13121900 - 10N-22E-34CC CEDAR CR AB DIVERSION NR DICKEY (LAT 44 08 55 LONG 113 50 20)												
NOV , 1983												
03...	1315	--	261	--	--	10.0	34	10	5.8	9	.2	1.1
18...	1120	--	258	8.2	--	12.0	32	9.6	4.9	8	.2	1.0
13121950 - 9N-22E-22CC WHISKEY SP NR CHILLY ID (LAT 44 05 30 LONG 113 50 50)												
NOV , 1983												
03...	0900	--	335	--	--	2.0	34	18	4.5	6	.2	.50
MAR , 1984												
08...	1200	.71	313	7.8	7.0	7.0	35	19	6.5	8	.2	.70
13122000 - THOUSAND SPRINGS C NR CHILLY, IDAHO (LAT 44 04 00 LONG 113 50 15)												
NOV , 1983												
02...	1700	--	345	--	--	5.0	48	21	13	12	.4	4.5
16...	1500	88	493	8.1	--	4.0	60	28	12	9	.3	3.6
MAR , 1984												
08...	1000	71	401	7.3	-3.0	1.0	56	20	7.1	6	.2	1.9

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	BORON, DISSOLVED (UG/L AS B)
MUDLAKE-LOST RIVER BASIN--Continued											
13120000 - N FK BIG LOST RIVER AT WILD HORSE NR CHILLY ID (LAT 43 55 59 LONG 114 06 47)											
NOV , 1983											
03...	91	17	1.0	.20	8.7	120	.17	40	<.10	<.010	--
16...	95	22	.90	.20	8.7	130	.18	42	<.10	<.010	--
13120240 - E F B LOST R AT ROSENKANCE RA NR CHILLY ID (LAT 43 53 45 LONG 113 59 00)											
NOV , 1983											
03...	59	15	2.0	.20	12	92	.13	--	<.10	.010	--
13120420 - 7N-20E-9B TWIN BRIDGES CR NR CHILLY ID (LAT 43 57 10 LONG 114 06 10)											
NOV , 1983											
03...	100	6.1	3.2	.20	25	140	.18	--	<.10	.020	--
13120450 - 8N-20E-35D GARDEN CR NR CHILLY ID (LAT 43 58 45 LONG 114 03 35)											
NOV , 1983											
03...	120	15	5.4	.20	27	170	.24	--	<.10	.070	--
13120500 - BIG LOST RIVER AT HOWELL RANCH NR CHILLY ID (LAT 43 59 54 LONG 114 01 12)											
NOV , 1983											
03...	78	16	1.8	.20	10	110	.15	116	<.10	<.010	--
16...	81	17	1.6	.20	10	110	.15	99	.55	.010	--
13121500 - BIG LOST R AT CHILLY BDG NR CHILLY ID (LAT 44 03 40 LONG 113 52 40)											
NOV , 1983											
02...	77	17	1.8	.20	9.8	110	.15	81	<.10	<.010	--
16...	80	18	1.8	.20	9.9	120	.16	97	<.10	<.010	--
13121580 - 9N-20E-25AD SAGE CR AB DIVERSION NR MACKAY (LAT 44 05 00 LONG 114 02 00)											
NOV , 1983											
18...	112	12	4.7	.20	34	170	.23	3.2	<.10	.080	--
13121700 - 10N-22E-28CENTER WILLOW CR BL FREIGHTER SP (LAT 44 10 05 LONG 113 51 40)											
NOV , 1983											
03...	111	25	1.9	.30	6.5	150	.20	1.2	.21	.010	--
13121900 - 10N-22E-34CC CEDAR CR AB DIVERSION NR DICKEY (LAT 44 08 55 LONG 113 50 20)											
NOV , 1983											
03...	117	21	4.5	.40	12	160	.22	--	.26	<.010	--
18...	113	19	3.2	.30	12	150	.20	--	.21	<.010	--
13121950 - 9N-22E-22CC WHISKEY SP NR CHILLY ID (LAT 44 05 30 LONG 113 50 50)											
NOV , 1983											
03...	142	21	4.8	<.10	5.7	170	.24	--	.60	<.010	--
MAR , 1984											
08...	150	24	5.0	<.10	5.7	210	.28	.40	.53	.020	<10
13122000 - THOUSAND SPRINGS C NR CHILLY, IDAHO (LAT 44 04 00 LONG 113 50 15)											
NOV , 1983											
02...	194	29	14	.40	18	260	.36	--	<.10	<.010	--
16...	243	34	12	.40	20	320	.43	75	<.10	.010	--
MAR , 1984											
08...	222	22	6.3	.40	16	280	.38	53	<.10	.060	10

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
MUD LAKE-LOST RIVER BASIN--Continued												
13122100 - 9N-22E-26C ELKHORN CR NR CHILLY ID (LAT 44 04 30 LONG 113 49 10)												
NOV , 1983												
16...	1400	4.8	297	8.1	--	4.0	26	22	3.2	4	.1	.90
13122400 - 8N-23E-8A LONG CEDAR CR AB DIVERSION NR CHILLY (LAT 44 02 40 LONG 113 44 40)												
NOV , 1983												
16...	1245	3.3	456	7.4	--	4.0	62	23	1.6	1	.0	.60
13122500 - BIG LOST R BLW CHILLY SINKS NR CHILLY ID (LAT 44 00 00 LONG 113 36 00)												
NOV , 1983												
01...	1535	E300	356	--	--	5.0	38	16	8.5	10	.3	3.1
15...	1410	E400	267	8.1	--	3.0	34	12	5.6	8	.2	1.5
13123400 - 7N-23E-33CCA1 BIG LOST RIVER AT GODDARD BR NR MA (LAT 43 58 36 LONG 113 44 20)												
NOV , 1983												
01...	1440	E500	361	--	--	7.0	38	15	8.1	10	.3	2.9
13124030 - HAMILTON SPRINGS NR MACKAY ID (LAT 43 59 28 LONG 113 51 53)												
NOV , 1983												
02...	0915	65	235	--	--	5.5	32	8.6	5.2	9	.2	1.0
15...	1415	58	236	8.2	3.5	6.0	33	8.5	5.0	8	.2	1.0
MAR , 1984												
07...	1200	41	234	8.0	4.0	8.5	32	8.3	4.5	8	.2	.90
13125800 - 8N-24E-19CB UPPER CEDAR CR AB DIVERSION NR MACKA (LAT 44 00 30 LONG 113 39 30)												
NOV , 1983												
16...	1125	8.8	412	8.2	--	4.0	57	19	1.8	2	.0	.50
TRIBUTARIES TO SNAKE RIVER FROM THOUSAND SPRINGS TO BIG WOOD RIVER												
13132595 - 08S 14E 21ABA1S SAND SPRING NR HAGERMAN ID (LAT 42 43 28 LONG 114 49 00)												
MAR , 1984												
12...	1500	87	402	8.0	15.0	14.0	35	17	21	22	.7	3.5
SALMON RIVER BASIN												
13298580 - 12N-20E-10CBD1S WARM SPRINGS (LAT 44 22 54 LONG 114 05 14)												
NOV , 1983												
14...	1730	17	671	--	7.0	34.0	74	28	39	21	1	12
MAR , 1984												
08...	1330	62	705	7.4	2.0	32.0	68	28	39	22	1	13
13299910 - 12N-23E-31CCC1S DOUBLESPRINGS (LAT 44 19 20 LONG 113 47 16)												
NOV , 1983												
17...	1500	5.9	227	8.0	9.0	5.0	36	9.5	1.5	2	.0	.40
13301510 - GROUSE CREEK AT ROAD CROSSING NR MAY, ID (LAT 44 26 50 LONG 113 53 14)												
NOV , 1983												
17...	1530	.95	498	8.3	--	1.5	97	12	2.2	2	.0	.80
13301535 - 14N-21E-[illegible]3AAC1 SULPHUR CR AT RD CROSSING NR MAY (LAT 44 32 56 LONG 113 54 55)												
NOV , 1983												
16...	1730	25	350	--	9.0	13.5	43	18	6.9	8	.2	1.6

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)
MUD LAKE-LOST RIVER BASIN--Continued											
13122100 - 9N-22E-2aC ELKHORN CR NR CHILLY ID (LAT 44 04 30 LONG 113 49 10)											
NOV , 1983											
16...	124	38	2.3	.10	6.1	170	.24	2.2	.12	.010	--
13122400 - 8N-23E-8A LONG CEDAR CR AB DIVERSION NR CHILLY (LAT 44 02 40 LONG 113 44 40)											
NOV , 1983											
16...	188	52	1.3	.20	5.3	260	.35	2.3	5.3	.020	--
13122500 - BIG LOST R BLW CHILLY SINKS NR CHILLY ID (LAT 44 00 00 LONG 113 36 00)											
NOV , 1983											
01...	152	24	7.4	.30	14	200	.28	--	<.10	.020	--
15...	123	19	4.5	.20	12	160	.22	--	<.10	<.010	--
13123400 - 7N-23E-33CCA1 BIG LOST RIVER AT GODDARD BR NR MA (LAT 43 58 36 LONG 113 44 20)											
NOV , 1983											
01...	151	24	7.0	.30	14	200	.27	--	<.10	.030	--
13124030 - HAMILTON SPRINGS NR MACKAY ID (LAT 43 59 28 LONG 113 51 53)											
NOV , 1983											
02...	113	16	3.3	.30	11	150	.20	25	.12	<.010	--
15...	111	15	2.8	.30	11	140	.19	22	.12	<.010	--
MAR , 1984											
07...	115	15	2.4	.30	10	150	.20	17	.11	.010	<10
13125800 - 8N-24E-19CB UPPER CEDAR CR AB DIVERSION NR MACKA (LAT 44 00 30 LONG 113 39 30)											
NOV , 1983											
16...	150	71	1.5	.20	5.7	250	.34	5.9	.24	<.010	--
TRIBUTARIES TO SNAKE RIVER FROM THOUSAND SPRINGS TO BIG WOOD RIVER											
13132595 - 08S 14E 21ABA1S SAND SPRING NR HAGERMAN ID (LAT 42 43 28 LONG 116 4[illegible] 00)											
MAR , 1984											
12...	151	31	17	.60	34	280	.38	65	.97	.020	--
SALMON RIVER BASIN--Continued											
13298580 - 12N-20E-10CBD1S WARM SPRINGS (LAT 44 22 54 LONG 114 05 14)											
NOV , 1983											
14...	236	130	8.7	1.3	24	460	.62	21	<.10	<.010	190
MAR , 1984											
08...	244	130	11	1.3	24	500	.68	84	.11	.010	200
13299910 - 12N-23E-31CCC1S DOUBLESPRINGS (LAT 44 19 20 LONG 113 47 16)											
NOV , 1983											
17...	113	16	.70	.20	5.2	140	.19	2.2	.28	.010	--
13301510 - GROUSE CREEK AT ROAD CROSSING NR MAY, ID (LAT 44 26 50 LONG 113 53 14)											
NOV , 1983											
17...	220	59	2.2	.30	6.5	310	.42	.80	<.10	.020	--
13301535 - 14N-21E-13AAC1 SULPHUR CR AT RD CROSSING NR MAY (LAT 44 32 56 LONG 113 54 55)											
NOV , 1983											
16...	153	33	2.9	.30	11	210	.28	14	.19	.040	20

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Samples are collected at gaged and ungaged sites and partial-record stations to give better areal coverage in a river basin. Such sites are referred to as miscellaneous sites.

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
KOOTENAI RIVER BASIN											
12305000 - KOOTENAI RIVER AT LEONIA IDAHO (LAT 48 37 04 LONG 116 02 47)											
OCT , 1983 03...	0905	6950	207	12.5	12.0	APR , 1984 09...	0850	6280	202	6.0	5.0
DEC 09...	0944	21600	232	15.0	7.5	JUN 13...	0851	9900	142	16.5	10.5
FEB , 1984 08...	0850	17100	222	2.0	3.5	AUG 10...	1030	12800	203	29.0	13.5
12306500 - MOYIE RIVER AT EASTPORT, IDAHO (LAT 48 59 58 LONG 116 10 43)											
JAN , 1984 03...	1400	176	45	2.5	.0	JUN , 1984 13...	1246	2390	30	16.0	10.0
MAR 30...	1030	378	44	4.0	4.5	AUG 13...	1317	113	46	31.0	18.0
APR 30...	1055	1070	40	11.0	5.0						
12318500 - KOOTENAI RIVER NR COPELAND, ID (LAT 48 54 43 LONG 116 24 59)											
JAN , 1984 05...	1230	22100	220	5.0	6.0	AUG , 1984 13...	0940	4840	212	19.0	16.5
12321500 - BOUNDARY CREEK NEAR PORTHILL, IDAHO (LAT 48 59 50 LONG 116 34 05)											
MAR , 1984 30...	1330	87	38	5.0	3.5	JUN , 1984 14...	1335	801	18	26.0	10.0
APR 30...	1205	215	30	15.0	4.0	AUG 17...	0940	33	47	20.5	15.5
PEND OREILLE RIVER BASIN											
12392000 - CLARK FORK AT WHITEHORSE RAPIDS NEAR CABINET, ID (LAT 48 05 18 LONG 116 04 16)											
OCT , 1983 06...	0925	20200	188	9.0	14.0	JUL , 1984 17...	1030	22100	137	23.0	17.0
DEC 06...	0842	23600	193	3.5	4.5	AUG 27...	1150	8200	193	29.0	19.0
FEB , 1984 02...	1130	29600	177	8.0	2.5	SEP 06...	0906	26300	196	13.5	18.5
						18...	1010	16800	226	18.5	18.0
APR 05...	1100	23500	165	10.0	6.0						
12392595 - BLANCHARD CR AB RES NR BLANCHARD ID (LAT 47 59 58 LONG 117 01 51)											
OCT , 1983 04...	1400	3.7	55	16.0	12.5	JUN , 1984 06...	1335	50	29	14.0	8.5
FEB , 1984 01...	1200	18	49	.5	1.0	AUG 15...	1240	3.8	54	31.0	16.5
APR 04...	1015	40	32	12.0	4.5						
12394000 - PRIEST R NR COOLIN ID (LAT 48 27 07 LONG 116 53 58)											
OCT , 1983 05...	1305	152	47	15.5	13.0	JUN , 1984 08...	1038	4560	45	9.0	9.0
DEC 05...	1013	1370	48	-3.5	5.5	AUG 07...	0921	359	49	13.5	18.0
JAN , 1984 31...	1030	734	53	2.0	2.0						
12395000 - PRIEST RIVER NEAR PRIEST RIVER, IDAHO (LAT 48 12 31 LONG 116 54 49)											
OCT , 1983 05...	0910	307	94	10.5	9.5	JAN , 1984 31...	1245	1020	55	14.0	3.0
DEC 05...	1320	1780	56	-1.0	3.0	JUN 11...	1030	5940	45	20.0	10.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

PEND OREILLE RIVER BASIN--Continued

12395500 - PEND OREILLE RIVER AT NEWPORT, WASH. (LAT 48 11 00 LONG 117 02 00)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983 04...	0848	22000	162	14.5	13.5	JUN , 1984 06...	0855	44000	131	10.0	12.0
FEB , 1984 01...	0805	23000	173	2.0	2.0	AUG 15...	1015	8970	161	23.0	21.5
APR 04...	0850	17000	137	7.0	7.5						

SPOKANE RIVER BASIN

12411000 - COEUR D'ALENE R AB SHOSHONE CK NR PRICHARD, IDA (LAT 47 42 30 LONG 115 58 35)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
JAN , 1984 10...	1005	795	39	2.0	1.5	JUL , 1984 17...	1325	250	59	33.0	21.0
MAR 06...	1320	372	45	11.0	2.0	SEP 17...	1010	101	62	11.5	11.5
MAY 11...	0935	1600	40	9.5	5.0						

12413000 - COEUR D'ALENE RIVER AT ENAVILLE IDAHO (LAT 47 34 20 LONG 116 15 10)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
JAN , 1984 11...	0715	2320	28	3.0	2.5	JUL , 1984 17...	0950	687	50	24.0	16.5
MAR 06...	0945	1290	45	10.5	4.0	SEP 18...	0650	283	52	8.0	13.0
MAY 11...	1125	3560	42	10.5	5.5						

12413140 - PLACER CREEK AT WALLACE, IDAHO (LAT 47 27 50 LONG 115 56 10)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
JAN , 1984 10...	1515	31	66	-1.0	3.5	JUL , 1984 18...	0804	24	75	10.5	15.0
MAR 06...	1435	16	84	5.0	4.0	SEP 17...	1220	5.0	95	21.5	11.5
MAY 11...	0730	72	72	5.0	4.5						

12413150 - SOUTH FORK COEUR D'ALENE RIVER AT SILVERTON, ID (LAT 47 29 29 LONG 115 57 12)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
JAN , 1984 16...	0950	138	107	-2.5	.5	JUL , 1984 18...	1000	156	102	22.5	12.5
MAR 06...	1515	105	96	11.0	3.0	SEP 17...	1330	58	139	25.0	14.5
MAY 11...	0610	373	105	6.0	5.5						

12414500 - ST JOE RIVER AT CALDER, ID (LAT 47 16 30 LONG 116 11 15)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983 02...	0815	527	61	9.0	7.0	MAY , 1984 10...	1110	4770	47	15.0	6.0
JAN , 1984 12...	1650	1770	45	8.0	2.0	JUL 19...	1100	1300	53	24.0	17.5
MAR 07...	1140	1280	46	11.0	2.0	SEP 19...	0905	419	62	18.0	13.5

12414900 - ST. MARIES RIVER NEAR SANTA IDAHO (LAT 47 10 35 LONG 116 29 30)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983 26...	1315	77	56	23.0	6.5	MAY , 1984 10...	1615	625	56	14.0	5.5
JAN , 1984 11...	1215	360	39	6.5	1.0	JUL 18...	1647	147	46	32.0	23.5
MAR 01...	1105	287	44	8.0	2.5	SEP 18...	1130	58	52	23.0	14.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

SPOKANE RIVER BASIN--Continued

12418003 - RATHDRUM PRAIRIE CANAL NEAR HUETTER, ID (LAT 47 42 36 LONG 116 52 16)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAY , 1984 26...	1045	23	52	14.0	10.0	JUL , 1984 18...	0945	49	46	25.0	23.0
JUN 20...	1400	48	43	33.0	17.5						

12419000 - SPOKANE RIVER NEAR POST FALLS, IDAHO (LAT 47 42 11 LONG 116 58 37)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983 25...	1030	1970	51	15.0	12.0	JUN , 1984 20...	1030	7330	46	25.0	16.0
DEC 20...	1130	4820	53	-5.0	3.0	JUL 18...	1235	3100	46	30.5	28.0
FEB , 1984 23...	1145	6970	54	3.0	1.0	SEP 25...	1240	1830	51	15.5	15.0
APR 24...	1035	15900	56	12.5	7.0						

SNAKE RIVER MAIN STEM

13011000 - SNAKE RIVER NEAR MORAN, WY (LAT 43 51 31 LONG 110 35 09)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983 11...	1507	843	160	10.0	10.0	MAY , 1984 15...	1445	2500	160	18.0	4.0
DEC 14...	1017	803	153	-1.0	1.0	JUN 12...	1653	4160	192	16.0	11.5
FEB , 1984 16...	0900	515	167	-5.0	.0	JUL 17...	1505	9010	140	27.0	17.0
APR 17...	1050	486	171	10.0	4.0	AUG 14...	1613	2780	156	23.0	20.5

PACIFIC CREEK BASIN

13011500 - PACIFIC CREEK AT MORAN, WY (LAT 43 51 04 LONG 110 30 59)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
DEC , 1983 13...	1320	115	217	-.5	.0	JUN , 1984 12...	1040	880	196	10.0	5.0
FEB , 1984 14...	1210	67	225	4.0	.0	JUL 17...	1250	231	170	22.0	14.0
APR 17...	0910	123	215	12.0	3.5	AUG 14...	1046	117	239	17.0	16.0
MAY 15...	1235	1030	160	12.0	3.0						

BUFFALO FORK BASIN

13011900 - BUFFALO FORK ABOVE LAVA CREEK NEAR MORAN, WY (LAT 43 50 14 LONG 110 26 21)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983 11...	0850	323	162	1.0	4.0	MAY , 1984 15...	1020	1650	156	16.0	2.0
DEC 13...	0939	182	223	-2.0	.0	JUN 12...	0735	1110	220	--	4.0
FEB , 1984 14...	0900	259	233	5.0	.0	JUL 17...	1130	1180	--	24.0	10.0
APR 17...	0805	213	222	4.0	4.0	AUG 14...	0742	483	159	10.5	10.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

SNAKE RIVER MAIN STEM--Continued

13018750 - SNAKE RIVER BELOW FLAT CREEK NEAR JACKSON, WY (LAT 43 22 20 LONG 110 44 17)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983						MAY , 1984					
12...	1527	2680	252	20.5	10.0	17...	0900	9530	249	5.0	3.0
DEC						JUN					
12...	1249	2270	256	2.0	2.0	11...	1251	9360	239	11.0	9.0
FEB , 1984						JUL					
13...	1530	1580	270	4.0	2.0	16...	1608	12900	184	30.0	18.0
APR						AUG					
16...	1215	1770	283	18.0	8.0	13...	1533	5120	293	22.0	17.0

HOBACK RIVER BASIN

13019430 - GRANITE CREEK NR BONDURANT,WY (LAT 43 17 44 LONG 110 29 58)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
MAY , 1984						JUL , 1984					
11...	1030	88	217	--	--	05...	1100	720	210	24.5	9.0
17...	1907	381	272	14.0	8.0	12...	1400	491	172	29.5	10.5
23...	0819	398	281	12.0	3.0	18...	1502	397	186	27.0	10.0
31...	0755	855	239	12.0	4.0	AUG					
JUN						15...	1230	156	270	18.5	10.5
08...	0815	345	249	5.5	4.5	SEP					
13...	1430	275	251	14.0	9.5	11...	1400	107	256	10.0	8.5
22...	1050	770	220	21.0	6.5						
29...	1124	975	207	30.0	12.0						

GREYS RIVER BASIN

13023000 - GREYS RIVER AB RESERVOIR NR ALPINE WY (LAT 43 08 35 LONG 110 58 34)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983						MAY , 1984					
13...	1520	469	362	14.0	7.0	16...	1240	3570	240	8.0	4.0
DEC						JUN					
15...	1630	401	350	-1.0	.0	14...	1341	2080	362	21.5	14.0
MAR , 1984						JUL					
15...	0920	285	401	4.5	1.5	19...	0852	1100	324	18.0	11.0
APR						AUG					
19...	1030	1180	283	3.0	3.0	16...	1240	630	344	18.0	14.0

SNAKE RIVER MAIN STEM--Continued

13032500 - SNAKE RIVER NEAR IRWIN, IDAHO (LAT 43 21 03 LONG 111 13 06)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983						MAY , 1984					
14...	0908	3620	338	7.0	12.0	15...	0840	12100	367	11.0	5.0
DEC						JUN					
16...	1101	5590	335	-2.0	.5	15...	0832	14100	357	15.5	10.0
FEB , 1984						JUL					
17...	0858	2000	356	1.0	2.5	19...	1630	15400	265	26.0	12.0
APR						AUG					
20...	0845	11900	377	10.0	3.0	17...	0952	7670	303	15.0	11.0

13038500 - SNAKE RIVER AT LORENZO, ID (LAT 43 44 06 LONG 111 52 33)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983						APR , 1984					
18...	1230	3450	275	6.0	10.5	02...	1225	4250	431	1.0	2.0
DEC						MAY					
02...	0930	4800	350	2.0	4.0	10...	1110	14200	400	9.0	5.0
JAN , 1984						JUL					
09...	1435	5590	327	-.5	2.5	09...	1420	14800	317	22.0	12.5
FEB						AUG					
29...	1445	1810	463	-2.0	3.5	13...	1555	3330	301	23.0	15.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

HENRYS FORK BASIN

13039500 - HENRYS FORK NEAR LAKE, ID (LAT 44 35 42 LONG 111 20 57)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						APR , 1984					
20...	1325	101	178	13.5	7.0	06...	1012	57	254	3.0	2.0
DEC						MAY					
01...	1648	86	190	3.0	.5	29...	1345	193	225	13.5	10.0
JAN , 1984						JUL					
11...	1602	59	204	-7.0	.0	05...	1700	233	231	21.0	19.0
MAR						AUG					
02...	1253	62	226	.0	1.5	20...	1102	84	199	16.0	17.5

13042500 - HENRYS FORK NEAR ISLAND PARK, ID (LAT 44 24 59 LONG 111 23 41)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						APR , 1984					
20...	1000	287	112	5.0	8.0	06...	1337	640	174	3.5	4.0
DEC						MAY					
01...	1210	432	160	-1.0	3.5	29...	0935	773	123	12.5	8.5
JAN , 1984						JUL					
11...	1130	695	202	-1.0	3.0	05...	1143	1450	168	28.0	14.0
MAR						AUG					
02...	1610	644	181	-1.0	3.0	23...	1111	1090	179	14.0	12.5

13046023 - HENRYS FORK NEAR ASHTON, ID (LAT 44 04 12 LONG 111 30 34)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						APR , 1984					
25...	1025	1350	121	.0	7.0	05...	1050	1600	319	8.0	8.0
DEC						MAY					
07...	1230	1190	158	-1.0	1.5	23...	0942	6900	114	16.0	11.5
JAN , 1984						JUL					
18...	1433	1300	168	-16.0	.0	06...	1450	2950	153	21.0	17.5
MAR						AUG					
06...	1250	1540	162	-1.0	3.5	14...	0945	3940	166	15.5	12.5

13047500 - FALLS RIVER NEAR SQUIRREL, ID (LAT 44 04 07 LONG 111 14 25)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						APR , 1984					
25...	1245	844	105	16.0	6.0	05...	1400	495	190	6.0	10.0
DEC						MAY					
06...	1230	653	199	-3.0	.5	24...	1040	4700	98	8.5	5.5
JAN , 1984						JUL					
18...	1255	289	220	-15.0	.0	06...	1110	2160	72	21.0	12.0
MAR						AUG					
06...	1355	491	191	-1.0	3.5	14...	1248	905	120	22.0	16.0

13049500 - FALLS RIVER NEAR CHESTER, ID (LAT 44 01 06 LONG 111 33 57)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						MAY , 1984					
25...	1440	918	123	13.0	7.0	23...	1414	4390	126	16.5	10.0
DEC						JUL					
07...	1515	749	176	-1.0	.5	03...	1510	2350	85	23.0	15.5
MAR , 1984						AUG					
05...	1255	533	198	-3.0	.0	14...	1628	524	143	27.5	20.5
APR											
03...	1415	591	203	2.0	5.0						

13050500 - HENRYS FORK AT ST ANTHONY, ID (LAT 43 55 00 LONG 111 40 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						APR , 1984					
26...	1240	2040	111	16.0	8.0	03...	1145	2040	159	1.0	5.0
DEC						MAY					
05...	1555	1810	143	-8.0	.5	15...	1226	12600	--	10.5	7.0
JAN , 1984						JUL					
18...	1712	1480	183	-19.0	.0	03...	1220	4160	134	20.0	17.0
MAR						AUG					
01...	1510	2050	169	.0	4.0	16...	0955	3820	156	17.5	19.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

HENRYS FORK BASIN--Continued

13052200 - TETON RIVER ABOVE LEIGH CREEK NEAR DRIGGS, ID (LAT 43 46 54 LONG 111 12 30)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						MAY , 1984					
10...	0937	472	360	11.0	8.5	14...	0955	771	302	16.5	9.5
DEC						JUN					
12...	0930	416	376	-1.0	1.0	11...	0916	1060	424	3.5	4.5
FEB , 1984						JUL					
13...	1123	282	382	1.0	.0	16...	0953	922	304	19.0	12.5
APR						AUG					
16...	0910	553	369	9.0	5.0	13...	0953	500	377	17.0	15.0

13055000 - TETON RIVER NEAR ST ANTHONY, ID (LAT 43 55 38 LONG 111 36 55)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						APR , 1984					
26...	1000	887	237	6.0	6.5	04...	0920	557	200	2.0	7.0
DEC						MAY					
12...	1200	730	397	2.0	2.0	14...	0940	2980	195	13.0	9.5
JAN , 1984						JUL					
10...	1040	518	225	-5.0	1.0	02...	0950	3630	243	18.5	13.5
FEB						AUG					
27...	1210	464	210	-2.0	2.0	15...	0948	933	284	19.0	17.0

13055198 - NORTH FORK TETON RIVER AT TETON, ID (LAT 43 53 53 LONG 111 40 38)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						APR , 1984					
21...	1210	453	260	12.0	7.0	04...	1130	137	346	5.0	8.0
DEC						MAY					
12...	1340	187	371	1.0	2.0	14...	1250	1200	198	18.0	11.0
JAN , 1984						JUL					
10...	1500	201	261	-7.0	.5	02...	1240	1270	242	20.0	14.0
FEB						AUG					
27...	1415	120	338	-1.0	2.0	15...	1320	417	261	26.0	18.0

13055319 - MOODY CR NR REXBURG ID (LAT 43 46 48 LONG 111 37 21)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						MAY , 1984					
18...	1450	8.8	209	10.0	6.0	12...	1545	178	121	16.5	7.5
JAN , 1984						13...	1125	332	113	15.0	5.0
19...	1300	6.1	259	-12.0	.0	JUL					
MAR						09...	1950	28	215	17.0	15.5
01...	1230	7.6	246	.0	.0	AUG					
APR						17...	1035	13	188	19.0	15.5
02...	1450	8.4	232	1.0	2.5						

13055340 - SOUTH FORK TETON RIVER AT REXBURG, IDAHO (LAT 43 50 07 LONG 111 46 38)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						APR , 1984					
19...	1415	179	293	9.0	7.5	04...	1332	249	153	4.0	9.0
DEC						MAY					
06...	1655	307	286	-1.0	.5	14...	1615	1700	198	19.0	12.0
JAN , 1984						JUL					
10...	1725	185	195	-6.0	.0	02...	1545	1720	234	21.0	16.0
FEB						AUG					
28...	1536	210	177	7.5	.0	17...	1332	229	277	24.0	20.0

13056500 - HENRYS FORK NR REXBURG,ID (LAT 43 49 34 LONG 111 54 15)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						MAY , 1984					
19...	1200	2920	158	6.0	6.0	07...	1100	4370	183	8.0	6.5
DEC						19...	0750	13200	109	9.0	8.0
05...	0955	2870	184	-8.0	.5	JUL					
MAR , 1984						03...	0929	6680	190	19.5	16.5
15...	1125	2450	218	4.0	5.5	AUG					
APR						16...	1320	4070	186	19.0	18.5
03...	0910	2420	202	.0	5.0						

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

SNAKE RIVER MAIN STEM--Continued

13057160 - SNAKE RIVER NR IDAHO FALLS ID (LAT 43 35 21 LONG 112 03 29)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983 18...	0855	6920	274	5.0	9.0	MAY , 1984 22...	1326	26900	290	29.0	9.0
DEC 02...	1210	7610	342	2.0	3.0	JUN 11...	1302	27300	--	21.5	9.5
JAN , 1984 09...	1010	8690	264	-.5	1.5	JUL 09...	1100	19900	301	19.0	15.0
FEB 29...	1000	4430	319	-7.0	.5	AUG 13...	1143	7350	269	23.0	18.5
APR 02...	0915	7610	364	.0	2.0						

13060000 - SNAKE RIVER NEAR SHELLEY, ID (LAT 43 24 50 LONG 112 08 05)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983 07...	1514	7420	305	5.0	8.0	MAY , 1984 21...	1725	23400	281	7.0	9.5
DEC 19...	1429	7820	212	-11.0	-.5	JUN 11...	1356	27200	281	13.0	9.0
FEB , 1984 06...	1523	6180	355	-2.5	.0	JUL 23...	1219	10800	212	26.0	17.0
MAR 19...	1236	4930	362	10.0	6.0	SEP 13...	1012	7810	311	13.0	13.5
MAY 01...	1400	17000	356	7.0	6.0						

13062500 - SNAKE RIVER AT BLACKFOOT ID (LAT 43 11 50 LONG 112 22 05)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983 08...	1253	7540	312	2.5	7.0	MAY , 1984 21...	1306	23100	297	12.0	10.0
DEC 20...	1250	7040	260	-13.0	-1.0	JUN 11...	1538	27300	277	13.0	10.0
FEB , 1984 03...	1308	8450	348	-4.0	.0	JUL 24...	1220	10400	217	22.0	17.0
MAR 20...	1130	4380	355	5.0	5.0	SEP 10...	1140	6760	330	14.0	13.0
APR 30...	1325	17600	371	7.0	6.0						

BLACKFOOT RIVER BASIN

13065940 - WOLVERINE CR NR GOSHEN ID (LAT 43 15 02 LONG 112 00 59)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
JAN , 1984 03...	1450	9.9	545	.0	9.5	JUN , 1984 18...	1710	56	572	17.0	15.0
FEB 17...	1407	11	568	.5	9.0	JUL 23...	1645	26	384	19.0	19.0
MAR 19...	1710	12	624	6.0	11.0	SEP 12...	1650	13	557	16.0	16.0
MAY 07...	1120	55	590	6.5	8.0						
15...	1405	183	658	8.0	10.0						

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

BLACKFOOT RIVER BASIN--Continued

13066000 - BLACKFOOT RIVER NEAR SHELLEY, IDAHO (LAT 43 16 00 LONG 112 03 00)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983						JUN , 1984					
14...	1601	463	457	1.0	4.0	12...	1250	1810	449	18.0	12.0
JAN , 1984						JUL					
03...	1255	931	452	-3.0	.0	23...	1530	1390	295	22.0	21.0
MAR						SEP					
19...	1555	404	508	6.3	4.5	12...	1507	445	329	21.0	17.0
MAY											
01...	1725	649	478	9.0	9.0						
15...	1020	1970	385	10.0	9.0						

13068495 - BLACKFOOT RIVER BY-PASS NR BLACKFOOT, IDAHO (LAT 43 10 16 LONG 112 23 13)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983						MAY , 1984					
14...	1234	515	413	1.0	3.5	17...	1307	1290	415	13.0	8.0
DEC						JUN					
24...	1553	612	387	-13.0	.0	18...	1116	1030	400	16.0	16.0
MAR , 1984						JUL					
23...	1252	243	550	4.5	4.5	30...	1310	840	269	21.0	19.0
MAY						SEP					
07...	1531	881	486	11.0	7.0	12...	1300	56	377	18.0	14.5
09...	1259	801	482	17.0	10.5						

13068500 - BLACKFOOT RIVER NR BLACKFOOT,ID (LAT 43 07 50 LONG 112 28 35)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983						MAY , 1984					
10...	1452	354	410	10.5	5.0	17...	1607	698	438	15.0	10.0
JAN , 1984						JUN					
04...	1350	314	482	1.0	.5	18...	1645	549	398	22.0	17.0
30...	1630	180	500	-5.0	.0	JUL					
MAR						26...	1458	332	276	25.0	23.0
22...	1733	259	552	4.0	5.0	SEP					
MAY						12...	1037	178	381	16.5	13.5
07...	1820	471	479	11.0	8.0						

SNAKE RIVER MAIN STEM--Continued

13069500 - SNAKE RIVER NEAR BLACKFOOT, ID (LAT 43 07 31 LONG 112 31 06)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983						MAY , 1984					
08...	1618	7520	346	3.0	7.5	17...	1847	27800	309	14.0	10.5
DEC						JUN					
20...	1650	7920	231	-19.0	.0	13...	1420	27200	294	16.0	13.0
FEB , 1984						JUL					
03...	1635	8480	371	-7.0	.5	24...	1553	10500	229	27.0	19.0
MAR						SEP					
20...	1454	4970	431	9.0	7.0	10...	1644	6730	351	17.5	14.0
APR											
30...	1735	16500	376	9.0	7.0						

PORTNEUF RIVER BASIN

13073000 - PORTNEUF RIVER AT TOPAZ, IDAHO (LAT 42 37 30 LONG 112 05 20)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983						MAY , 1984					
08...	1300	235	829	7.0	8.0	17...	1050	1240	--	10.0	7.0
JAN , 1984						29...	1300	978	469	26.0	15.5
04...	1335	235	769	8.0	6.0	JUL					
FEB						17...	1207	273	812	22.5	19.0
23...	1307	226	730	-1.0	4.0	AUG					
APR						28...	1428	256	740	19.0	18.0
09...	1300	361	811	3.0	7.0						

13075000 - MARSH CREEK NR MCCAMMON ID (LAT 42 37 50 LONG 112 13 30)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
APR , 1984						AUG , 1984					
09...	1025	179	786	3.0	6.0	28...	1053	130	801	15.0	16.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

PORTNEUF RIVER BASIN--Continued

13075100 - RAPID CR NR INKOM ID (LAT 42 43 02 LONG 112 13 46)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
JAN , 1984 06...	0937	21	335	.0	1.5
FEB 23...	1645	19	331	-4.0	.0
APR 10...	0944	82	314	4.0	4.0
MAY 17...	1649	463	150	24.0	11.0
MAY , 1984 31...	1253	307	183	21.5	11.0
JUL 18...	1204	28	450	26.5	27.0
AUG 28...	1712	22	461	23.0	17.0

13075500 - PORTNEUF RIVER AT POCATELLO, IDAHO (LAT 42 52 20 LONG 112 28 05)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983 10...	0937	442	141	11.5	5.5
JAN , 1984 06...	1059	464	753	1.0	3.5
FEB 24...	0810	362	785	-1.0	1.0
APR 10...	1055	779	688	11.5	9.5
MAY 04...	1012	1270	447	7.0	8.0
10...	1125	1550	375	15.5	11.0
MAY , 1984 15...	1423	2530	357	7.0	11.0
29...	0856	2070	383	15.0	13.5
JUN 26...	1139	1000	468	25.5	19.0
JUL 19...	1146	236	758	26.5	24.0
AUG 29...	1113	379	703	23.0	21.0

SNAKE RIVER MAIN STEM--Continued

13077000 - SNAKE RIVER AT NEELEY IDAHO (LAT 42 46 06 LONG 112 52 42)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983 09...	1620	10500	452	3.0	9.0
DEC 21...	1547	12800	190	-20.5	.0
FEB , 1984 01...	1607	12900	471	-2.0	1.5
22...	1308	3270	494	4.0	3.0
MAR 22...	1202	4080	510	6.0	3.0
MAY , 1984 03...	1530	19800	437	15.0	7.0
JUL 25...	1520	11700	259	26.0	21.5
AUG 22...	1145	11300	332	21.0	22.0
SEP 11...	1741	9920	359	22.0	18.5

RAFT RIVER BASIN

13078205 - RAFT RIVER BEL ONE MILE CR NR MALTA,ID (LAT 42 04 13 LONG 113 26 37)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 05...	1046	17	1050	22.0	13.0
NOV 17...	1225	25	1020	6.5	6.0
JAN , 1984 04...	1235	30	993	5.0	3.5
FEB 09...	1020	22	927	-.5	.5
MAR 21...	1020	96	777	4.5	6.0
APR , 1984 19...	0905	315	462	10.5	5.0
MAY 09...	0925	223	496	19.0	9.0
JUL 05...	1020	77	822	37.0	17.5
AUG 21...	1345	26	1110	28.0	18.0
SEP 27...	1148	20	1230	27.0	11.0

SNAKE RIVER MAIN STEM--Continued

13081500 - SNAKE R NR MINIDOKA ID (AT HOWELLS FERRY) (LAT 42 40 23 LONG 113 29 58)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 05...	1550	6600	346	26.0	17.0
NOV 07...	1030	9900	414	7.5	11.0
FEB , 1984 02...	1050	13400	440	-4.5	2.0
MAR 05...	1200	3530	454	5.0	5.5
APR , 1984 17...	0934	14600	417	21.0	9.0
MAY 26...	1000	24700	397	20.0	13.0
JUL 06...	0840	17000	352	27.0	13.5
SEP 17...	0915	7150	403	19.0	17.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

GOOSE CREEK BASIN

13082500 - GOOSE CREEK AB TRAPPER CREEK NR OAKLEY ID (LAT 42 07 30 LONG 113 56 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983					
04...	1530	33	380	25.0	15.0
NOV					
18...	0855	36	383	-2.0	3.0
JAN , 1984					
19...	1145	31	410	--	.5
FEB					
10...	0800	36	345	.5	.0
MAR					
22...	0915	138	497	6.0	5.5
APR , 1984					
19...	1310	283	276	10.0	6.0
MAY					
10...	0930	366	276	16.0	11.0
15...	1005	1240	314	7.5	10.5
JUL					
12...	1310	76	441	26.0	20.5
AUG					
22...	1020	46	474	22.0	15.5

13083000 - TRAPPER CREEK NEAR OAKLEY, IDAHO (LAT 42 10 10 LONG 113 58 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983					
04...	1236	12	222	19.0	13.0
NOV					
18...	1140	14	224	3.5	5.5
JAN , 1984					
19...	1450	11	208	-7.0	1.5
FEB					
10...	1215	15	256	2.5	4.0
MAR					
22...	1240	20	216	20.0	9.0
APR					
19...	1537	37	177	15.0	9.0
MAY , 1984					
10...	1255	66	169	24.5	10.0
15...	1250	146	153	5.5	6.0
JUN					
12...	1235	72	144	20.0	9.5
JUL					
18...	1238	27	179	34.5	18.0
AUG					
22...	1400	13	255	23.5	17.0

SNAKE RIVER MAIN STEM--Continued

13088000 - SNAKE RIVER AT MILNER, IDAHO (LAT 42 31 41 LONG 114 01 04)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983					
05...	0905	2720	418	8.5	12.5
NOV					
08...	0920	8600	440	6.0	7.0
DEC					
27...	1025	12600	436	-1.0	.0
MAR , 1984					
07...	0845	3910	460	-1.0	1.5
APR					
17...	0830	13700	419	12.5	8.0
MAY , 1984					
23...	1025	19300	413	23.0	12.5
JUL					
05...	0951	8240	353	28.5	19.0
AUG					
10...	0845	719	363	21.0	22.0
SEP					
17...	1015	1860	371	24.0	18.0

13090000 - SNAKE RIVER NEAR KIMBERLY, IDAHO (LAT 42 35 28 LONG 114 21 34)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAY , 1984					
29...	0805	10500	303	21.5	19.5

TRIBUTARIES BETWEEN SNAKE RIVER AT MILNER AND SALMON FALLS CREEK

13090101 - 09S 18E 32BD 1S DEVILS CORRAL SPR L. OUTLET (LAT 42 36 01 LONG 114 22 30)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAR , 1984					
12...	1505	4.3	582	14.0	11.5

13090300 - 09S 18E 31AC 1S UNNAMED SPR NO.1 NR TWIN FALLS (LAT 42 36 03 LONG 114 23 36)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAR , 1984					
12...	1530	2.0	573	12.5	15.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

TRIBUTARIES BETWEEN SNAKE RIVER AT MILNER AND SALMON FALLS CREEK--Continued

13090350 - 09S 15E 31AC 2S UNNAMED SPR NO.2 NR TWIN FALLS (LAT 42 35 52 LONG 114 23 55)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
MAR , 1984 12...	1620	5.3	585	12.5	14.0

13091000 - 09S 17E 28DBA1S BLUE LAKES SPR NR TWIN FALLS, ID (LAT 42 36 53 LONG 114 28 06)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 04...	0950	166	651	12.5	15.0	APR , 1984 05...	0925	176	577	11.5	14.3
NOV 14...	0920	181	633	3.0	15.0	MAY 25...	1100	178	606	17.0	15.5
JAN , 1984 09...	1300	178	672	2.5	14.0	JUL 02...	1015	178	629	29.5	16.0
FEB 29...	0815	174	632	-5.0	14.5	AUG 20...	1100	186	632	27.0	16.5
MAR 12...	1200	172	621	10.0	15.5						

13091500 - BLUE LAKES OUTLET (LAT 42 36 30 LONG 114 28 34)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
MAR , 1984 14...	1207	196	568	11.5	14.0

13091700 - WARM CR NR TWIN FALLS ID (LAT 42 37 15 LONG 114 29 55)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
MAR , 1984 14...	1550	14	589	10.5	18.0

ROCK CREEK BASIN

13093000 - ROCK CREEK NEAR TWIN FALLS, IDAHO (LAT 42 35 37 LONG 114 31 44)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983 28...	0955	160	831	1.5	9.0	MAY , 1984 18...	0730	775	294	9.5	8.0
JAN , 1984 10...	0900	160	712	-5.0	5.0	JUN 21...	1100	375	457	22.0	13.5
FEB 29...	1030	123	778	-2.0	5.5	AUG 02...	0815	260	723	16.0	16.5
APR 03...	0820	147	598	8.0	6.0	29...	0940	289	726	31.0	15.0

TRIBUTARIES BETWEEN SNAKE RIVER AT MILNER AND SALMON FALLS CREEK--Continued

13093391 - 09S 15E 12DAB2S CRYSTAL SPR TRIB 1 (LAT 42 39 29 LONG 114 38 18)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
MAR , 1984 14...	0945	19	697	11.5	14.5

13093398 - 09S 15E 12BCA1S CRYSTAL SPR TRIB 8 (LAT 42 39 42 LONG 114 38 59)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
MAR , 1984 14...	1217	31	632	11.0	14.0

13093700 - 09S 15E 10AA1S NIAGARA SP NR BUHL ID (LAT 42 39 48 LONG 114 40 25)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
MAR , 1984 13...	1150	292	606	13.0	13.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

SNAKE RIVER MAIN STEM--Continued

13094000 - SNAKE RIVER NEAR BUHL, IDAHO (LAT 42 39 53 LONG 114 42 41)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						APR , 1984					
03...	0940	5360	519	12.5	13.5	03...	1040	13500	458	24.0	7.0
NOV						MAY					
21...	1110	14100	508	6.0	5.5	25...	1400	22100	425	23.0	13.0
JAN , 1984						JUL					
10...	1110	16300	513	.5	1.5	17...	0912	3420	521	31.5	19.5
MAR						AUG					
01...	1015	3450	523	16.0	5.5	28...	1015	4450	483	27.0	19.5

TRIBUTARIES BETWEEN SNAKE RIVER AT MILNER AND SALMON FALLS CREEK--Continued

13094500 - 09S 14E 02DCC1S (LAT 42 40 01 LONG 114 46 45)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAR , 1984					
15...	1330	448	506	--	--

13095300 - 08S 14E 33DAB1S (LAT 42 41 31 LONG 114 49 21)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAR , 1984					
13...	1517	129	418	17.0	14.0

13095350 - 08S 14E 28CD 1S UNNAMED SPR NR BUHL (LAT 42 41 51 LONG 114 49 21)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAR , 1984					
13...	1550	4.1	424	17.0	14.0

13095400 - 08S 14E 23BDD1S BLIND CANYON SPR NR BUHL, IDAHO (LAT 42 42 12 LONG 114 49 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAR , 1984					
13...	1630	11	428	13.0	14.0

BOX CANYON SPRINGS BASIN

13095500 - BOX CANYON SPR NR WENDELL ID (LAT 42 42 25 LONG 114 48 45)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAR , 1984						JUL , 1984					
13...	1230	357	407	17.5	14.5	17...	0915	364	395	14.0	14.5
MAY											
26...	0840	353	392	11.5	14.5						

SALMON FALLS CREEK BASIN

13105000 - SALMON FALLS CREEK NR SAN JACINTO, NV (LAT 41 56 40 LONG 114 41 15)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						MAY , 1984					
11...	1347	77	234	18.5	15.5	04...	0855	1390	97	5.0	6.0
NOV						14...	1114	2760	109	26.0	15.5
28...	0954	86	240	3.0	6.0	18...	1150	2560	153	19.0	11.0
JAN , 1984						JUN					
11...	1025	109	200	-2.0	1.0	13...	1130	1020	132	19.0	12.0
FEB						27...	0840	822	123	13.0	15.0
23...	1050	102	222	-7.0	1.0	JUL					
APR						10...	1105	392	167	22.5	19.5
02...	1045	249	166	3.5	5.0	AUG					
18...	0900	1550	107	5.0	6.0	04...	0940	92	254	18.5	16.0

13108150 - SALMON FALLS CREEK NR HAGERMAN,ID (LAT 42 41 47 LONG 114 51 15)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						MAY , 1984					
13...	1108	272	620	12.5	12.5	17...	1013	3000	322	18.5	9.5
NOV						24...	1546	1520	257	21.5	12.0
23...	1130	178	879	7.5	8.0	JUL					
JAN , 1984						09...	1312	72	802	29.0	21.0
13...	1010	130	904	-.5	7.5	AUG					
FEB						24...	0840	106	790	22.5	18.0
28...	0910	125	861	1.5	6.0						
APR											
04...	1255	135	776	18.5	11.0						

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MUD LAKE-LOST RIVER BASINS											
13112000 - CAMAS CREEK AT CAMAS IDAHO (LAT 44 00 10 LONG 112 13 12)											
OCT , 1983 25...	1512	61	158	12.0	8.0	APR , 1984 12...	1515	34	164	5.5	4.0
NOV 10...	1430	86	169	10.0	4.0	MAY 16...	1515	1180	109	9.0	9.0
DEC 06...	1510	19	169	-6.0	.0	JUL 03...	1312	35	123	21.5	23.0
JAN , 1984 17...	1640	20	186	-17.0	.0						
13117360 - SAWMILL CR AB SUMMIT CR NR CLYDE ID (LAT 44 13 16 LONG 113 19 02)											
NOV , 1983 15...	1300	22	140	4.5	.5	JUL , 1984 10...	1015	77	92	23.5	10.0
MAY , 1984 09...	1330	48	121	15.0	10.0	AUG 21...	0953	26	126	15.5	9.5
13117390 - 11N-25E-22AAA SUMMIT CR AB BARNEY HOT SP NR GOLD (LAT 44 16 32 LONG 113 27 23)											
NOV , 1983 17...	1335	16	318	--	8.0	APR , 1984 04...	1440	14	315	5.5	12.5
DEC 14...	1115	14	--	-1.0	4.0	MAY 08...	1200	18	326	17.5	12.5
JAN , 1984 04...	1340	12	328	-5.5	5.5	JUL 17...	0920	12	326	16.0	12.0
18...	1200	12	330	--	3.0	AUG 07...	1020	17	318	16.5	12.0
FEB 09...	1326	13	313	-5.0	7.0	SEP 11...	1005	16	296	11.0	10.0
MAR 08...	1512	13	306	.5	11.0						
13117391 - 11N-25E-23CAB1S BARNEY HOT SPRINGS (LAT 44 16 08 LONG 113 26 58)											
NOV , 1983 17...	1245	.82	--	--	27.0	MAY , 1984 08...	1351	.64	321	17.5	27.0
DEC 14...	1035	1.3	--	--	20.5	JUL 17...	0900	.63	353	16.0	28.0
JAN , 1984 04...	1235	.76	348	-5.0	21.0	AUG 07...	0945	.78	347	17.5	17.0
18...	1200	.68	333	--	18.0	SEP 11...	0940	.88	325	13.0	27.0
FEB 09...	1633	.74	344	-3.0	23.0						
APR 04...	1500	.74	333	8.5	25.5						
13118700 - LITTLE LOST RIVER BL WET CREEK NR HOWE ID (LAT 44 08 19 LONG 113 14 39)											
NOV , 1983 15...	1115	65	273	4.0	2.0	MAY , 1984 09...	1115	115	224	15.0	6.0
JAN , 1984 11...	1245	6.0	268	.0	.5	JUL 10...	1220	220	225	24.0	9.5
MAR 14...	1130	48	332	8.0	3.0	AUG 21...	1205	128	241	20.0	10.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

MUD LAKE-LOST RIVER BASINS--Continued

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
13120000 - N FK BIG LOST RIVER AT WILD HORSE NR CHILLY ID (LAT 43 55 59 LONG 114 06 47)					
NOV , 1983					
03...	1650	120	207	--	4.0
18...	0925	114	230	-1.0	.5
JAN , 1984					
19...	1130	65	246	.0	.0
MAY					
10...	0933	139	246	5.0	4.0
MAY , 1984					
25...	1500	1020	61	13.5	11.0
JUN					
07...	0905	360	182	14.0	4.0
JUL					
24...	1345	278	167	21.0	11.5
SEP					
11...	1205	86	233	15.5	11.5
13120300 - WILDHORSE CREEK NR WILDHORSE RS (LAT 43 54 00 LONG 114 05 50)					
DEC , 1983					
02...	1135	44	206	-13.5	.0
13120400 - E FK BIG LOST RIVER AT MOUTH NR CHILLY (LAT 43 55 55 LONG 114 06 40)					
DEC , 1983					
02...	1615	213	179	-5.5	.5
JAN , 1984					
05...	1000	189	184	--	.0
FEB					
08...	1210	110	213	4.5	.5
APR , 1984					
03...	1134	114	223	5.5	3.5
AUG					
09...	0950	3.3	141	14.0	10.0
SEP					
12...	1300	174	169	10.5	10.0
13120500 - BIG LOST RIVER AT HOWELL RANCH NR CHILLY ID (LAT 43 59 54 LONG 114 01 12)					
NOV , 1983					
03...	1545	390	185	--	7.5
16...	1700	322	173	--	2.0
18...	1345	322	202	.0	1.0
28...	1540	365	197	.5	.5
JAN , 1984					
05...	1100	94	206	--	.0
FEB					
08...	1310	195	216	5.0	.0
APR					
03...	1523	175	212	5.0	6.0
MAY , 1984					
10...	1105	437	194	4.5	5.0
JUN					
07...	1045	1090	149	10.0	5.0
JUL					
24...	1110	972	111	15.0	9.5
SEP					
11...	0945	281	205	9.5	7.0
13121750 - 9N 22E 6BBC1 WILLOW CREEK AT HWY 93A (LAT 44 08 22 LONG 113 54 13)					
APR , 1984					
03...	1735	4.4	300	5.0	8.0
MAY					
08...	1720	3.5	325	15.0	15.0
JUL					
19...	1355	3.1	300	26.5	7.0
AUG , 1984					
09...	1520	3.3	301	26.5	20.5
SEP					
12...	0800	4.4	300	9.0	6.0
13122000 - THOUSAND SPRINGS CR NR CHILLY, IDAHO (LAT 44 04 00 LONG 113 30 15)					
NOV , 1983					
16...	1500	88	493	--	4.0
DEC					
03...	1240	51	397	-7.5	.5
15...	1230	38	--	--	--
JAN , 1984					
05...	1330	29	410	--	.0
19...	1650	36	482	--	.0
FEB					
08...	1615	67	461	-1.5	2.5
MAR					
08...	1000	71	401	-3.0	1.0
APR , 1984					
03...	1705	122	552	5.0	7.5
MAY					
08...	1632	56	554	10.5	12.5
JUL					
19...	1300	75	470	24.0	20.0
AUG					
09...	1440	72	567	25.0	20.5
SEP					
13...	0840	35	632	7.0	18.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

MUD LAKE-LOST RIVER BASINS--Continued

13124030 - HAMILTON SPRINGS NR MACKAY ID (LAT 43 59 25 LONG 113 51 53)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983						APR , 1984					
02...	0915	65	235	--	5.5	03...	0934	40	240	4.0	9.5
15...	1415	55	236	3.5	6.0	MAY					
DEC						08...	1520	39	240	11.5	11.5
03...	0915	44	238	-5.0	8.0	JUL					
JAN , 1984						18...	1245	38	252	27.0	11.0
05...	1235	42	247	--	3.5	AUG					
19...	1325	41	236	--	5.0	09...	1315	43	242	29.0	10.5
FEB						SEP					
[illegible]...	0930	43	245	-7.0	4.0	13...	1045	44	249	7.5	7.0
MAR											
07...	1200	41	234	4.0	8.5						

13127000 - BIG LOST RIVER BL MACKAY RESERVOIR ID (LAT 43 56 20 LONG 113 38 50)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983						MAY , 1984					
16...	1500	677	306	5.0	5.0	10...	1100	681	308	12.0	6.0
JAN , 1984						JUL					
12...	1315	296	292	-4.0	3.0	11...	1215	1040	209	22.0	14.0
MAR						AUG					
15...	1200	308	366	5.0	4.0	22...	0955	791	272	15.0	15.0

13128900 - LOWER CEDAR CR AB DIVERSIONS NR MACKAY IDAHO (LAT 43 57 57 LONG 113 34 40)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983						JUL , 1984					
16...	1145	17	238	5.0	5.0	11...	0925	72	185	20.0	5.0
FEB , 1984						AUG					
07...	1450	10	294	6.0	1.0	21...	1443	32	223	22.5	7.0
MAY											
10...	1400	9.3	271	13.0	5.0						

13130900 - ANTELOPE CR AB WILLOW CR NR DARLINGTON, IDAHO (LAT 43 40 43 LONG 113 37 45)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
DEC , 1983						MAY , 1984					
04...	0850	87	210	-6.5	1.0	08...	1325	97	211	11.0	7.0
JAN , 1984						JUL					
03...	1245	67	216	-6.0	1.0	19...	1030	97	170	23.0	12.5
17...	1545	52	228	--	1.0	AUG					
FEB						10...	1000	71	204	17.0	11.0
09...	1115	43	225	-6.5	1.5	SEP					
MAR						10...	1405	52	211	15.0	11.5
06...	1440	59	--	1.5	4.0						
APR											
02...	1425	54	228	5.5	7.0						

13130920 - 4N24E9BBB1 CHERRY CREEK NR GROUSE (LAT 43 44 00 LONG 113 39 15)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
JAN , 1984						JUL , 1984					
03...	1315	37	496	--	.5	19...	0940	22	413	19.0	13.0
FEB						AUG					
09...	1040	28	--	-10.0	2.0	10...	0905	20	429	14.0	11.5
APR						SEP					
02...	1520	31	461	11.0	7.0	10...	1325	15	437	15.0	11.0

13132500 - BIG LOST RIVER NR ARCO,ID (LAT 43 35 00 LONG 113 16 10)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
DEC , 1983						MAY , 1984					
04...	1145	692	345	-4.5	.5	08...	1700	704	340	18.0	11.5
JAN , 1984						JUL					
03...	1055	354	367	-5.0	.5	10...	1530	659	306	29.0	13.0
17...	1300	362	367	--	.0	AUG					
FEB						15...	1103	263	402	19.0	16.0
07...	1800	303	357	-9.0	1.5	SEP					
MAR						27...	1055	276	393	7.0	9.0
15...	1530	341	442	6.0	6.5						
APR											
02...	1255	527	364	5.0	6.5						

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

TRIBUTARIES TO SNAKE RIVER FROM THOUSAND SPRINGS TO BIG WOOD RIVER

13132600 - 08S 14E 170DC1S SAND SPR CR BL PONDS NR HAGERMAN (LAT 42 43 36 LONG 114 50 00)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAR , 1984					
15...	0955	86	397	6.0	12.0

13132790 - 08S 14E 06DAC1S (LAT 42 45 29 LONG 114 51 19)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAR , 1984					
15...	1515	20	329	9.0	15.0

13133800 - 08S 14E 06AC 1S RILEY CR BELOW LEWIS CR (LAT 42 45 50 LONG 114 51 40)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAR , 1984					
15...	1540	72	333	9.0	15.0

13134600 - 07S 14E 32BCD1S BILLINGSLY CR AT HEAD (LAT 42 46 35 LONG 114 50 55)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAR , 1984					
12...	1403	45	336	13.0	14.0

13134800 - 07S 13E 11AC 1S BILLINGSLEY CR AT MOUTH (LAT 42 50 10 LONG 114 53 40)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAR , 1984					
12...	1217	214	356	8.0	13.0

SNAKE RIVER MAIN STEM--Continued

13135000 - SNAKE RIVER BL LOWER SALMON FALLS NR HAGERMAN,ID (LAT 42 50 55 LONG 114 54 02)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						MAY , 1984					
17...	1430	14400	453	25.0	13.0	24...	1105	26500	414	18.5	14.0
FEB , 1984						AUG					
28...	1025	9340	510	3.0	6.5	24...	1050	7130	534	25.0	18.0

TRIBUTARIES TO SNAKE RIVER FROM THOUSAND SPRINGS TO BIG WOOD RIVER--Continued

13135100 - 06S 13E 3400 1S BIRCH CREEK NEAR HAGERMAN, IDAHO (LAT 42 51 10 LONG 114 53 30)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAR , 1984					
15...	1157	9.4	426	7.0	12.5

BIG WOOD RIVER BASIN

13139500 - BIG WOOD RIVER AT HAILEY, IDAHO (LAT 43 31 05 LONG 114 19 10)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983						APR , 1984					
13...	1530	422	183	8.0	12.0	11...	1530	397	297	13.0	6.5
DEC						JUN					
06...	1730	353	279	--	2.0	05...	1104	1960	257	14.5	6.5
FEB , 1984						JUL					
06...	1630	264	301	-12.0	1.5	12...	1513	1070	209	27.0	14.5
MAR						AUG					
07...	1015	3.7	--	--	--	23...	1805	397	272	20.0	15.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

BIG WOOD RIVER BASIN--Continued

13141000 - BIG WOOD RIVER NEAR BELLEVUE, IDAHO (LAT 43 19 40 LONG 114 20 25)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
DEC , 1983 05...	1600	305	299	--	.5	JUN , 1984 04...	1525	1910	276	11.5	10.0
FEB , 1984 06...	1300	222	306	-12.0	.0	JUL 13...	1047	714	106	22.5	13.5
APR 12...	1100	446	319	4.0	4.0	AUG 24...	1320	212	300	27.5	16.5

13141500 - CAMAS CREEK NR BLAINE ID (LAT 43 19 59 LONG 114 32 27)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
DEC , 1983 08...	0950	55	194	--	.0	JUN , 1984 04...	1434	543	205	10.0	10.0
FEB , 1984 06...	1310	96	269	-4.0	--	JUL 09...	1110	85	153	27.0	16.5
APR 09...	1500	2640	109	13.0	3.0	AUG 27...	1155	14	233	22.0	15.5

13142500 - BIG WOOD RIVER BEL MAGIC DAM NR RICHFIELD,ID (LAT 43 15 00 LONG 114 21 30)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
FEB , 1984 06...	1115	10	255	-12.0	3.5	JUL , 1984 12...	1005	362	184	29.0	21.0
APR 11...	1130	4010	223	13.0	2.5	AUG 23...	1256	830	206	25.0	15.0
JUN 05...	1320	2630	258	15.0	12.0						

13147900 - LITTLE WOOD RIVER AB HI FIVE CREEK NR CAREY ID (LAT 43 29 30 LONG 114 03 30)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
FEB , 1984 07...	1030	106	246	-2.0	.0	JUL , 1984 09...	1500	300	170	26.5	14.0

13148500 - LITTLE WOOD RIVER NR CAREY,ID (LAT 43 23 20 LONG 114 00 00)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
DEC , 1983 07...	1145	111	238	--	4.0	JUN , 1984 06...	1040	556	254	13.0	9.5
FEB , 1984 07...	1130	24	276	14.0	.0	JUL 11...	1525	366	174	28.0	14.0
APR 10...	1300	625	219	12.0	3.0	AUG 22...	1658	252	201	28.0	17.5

13150430 - SILVER CREEK AT SPORTSMAN ACCESS NR PICABO IDAHO (LAT 43 19 22 LONG 114 06 29)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 04...	1710	290	299	19.0	11.5	JUN , 1984 06...	1442	164	445	15.0	13.0
DEC 06...	1300	219	394	--	2.0	JUL 12...	1215	156	388	27.0	17.0
FEB , 1984 07...	1445	181	391	8.0	2.0	AUG 24...	0950	202	393	20.5	15.0
APR 11...	1400	246	425	15.0	6.5						

13152500 - BIG WOOD RIVER NR GOODING ID (LAT 42 53 12 LONG 114 48 08)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 24...	1145	230	372	8.5	9.0	MAY , 1984 26...	1020	1980	249	33.5	14.0
JAN , 1984 12...	1110	501	311	-1.0	.0	JUL 16...	1045	191	298	30.0	21.5
FEB 29...	1140	151	365	4.0	.0	AUG 21...	1303	224	346	33.5	21.5
APR 05...	1200	427	232	12.0	9.5						
23...	1015	3510	251	21.0	10.0						

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

CANYON CREEK BASIN

13159800 - CANYON CR AT OREGON TRAIL CROSSING NR MOUNTAIN H (LAT 43 15 39 LONG 115 42 06)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
FEB , 1984 29...	1500	34	--	12.0	5.5	JUL , 1984 09...	1020	70	55	18.5	13.0
MAR 21...	1300	316	45	10.0	5.0	AUG 20...	1500	53	67	23.0	18.5
MAY 29...	1425	77	58	23.5	18.5						

BRUNEAU RIVER BASIN

13168500 - BRUNEAU RIVER NR HOT SPRING,ID (LAT 42 46 16 LONG 115 43 10)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 06...	0915	130	78	14.5	16.0	APR , 1984 04...	1045	539	186	10.0	14.0
DEC 14...	1025	252	165	5.5	9.5	MAY 30...	1330	4490	103	24.5	16.5
FEB , 1984 09...	1220	234	190	-2.0	6.0	AUG 20...	1200	259	206	25.0	22.0

SNAKE RIVER MAIN STEM--Continued

13172500 - SNAKE RIVER NEAR MURPHY, IDAHO (LAT 43 17 30 LONG 116 25 12)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 04...	1035	12400	495	15.5	15.5	APR , 1984 11...	1020	22900	454	7.0	10.0
FEB , 1984 10...	1100	15800	473	1.5	4.5	MAY 24...	1430	34500	354	16.5	15.5

BOISE RIVER BASIN

13185000 - BOISE RIVER NEAR TWIN SPRINGS, IDAHO (LAT 43 39 22 LONG 115 43 34)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 07...	1015	522	78	10.5	9.5	MAY , 1984 15...	1140	10100	--	7.0	2.5
DEC 12...	1130	758	81	1.5	3.5	JUL 05...	1315	3190	--	25.0	11.5
APR , 1984 05...	1030	1430	77	6.5	5.0	AUG 21...	1015	582	73	20.0	15.0

13186000 - S FK BOISE RIVER NR FEATHERVILLE ID (LAT 43 29 40 LONG 115 18 20)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 05...	1400	355	113	15.5	11.5	MAY , 1984 15...	1330	6670	38	6.0	5.0
DEC 13...	1120	378	139	-1.0	1.5	JUL 09...	1500	1600	44	24.0	12.5
FEB , 1984 07...	1200	317	--	-3.0	.0	AUG 22...	1000	371	112	19.0	14.0
APR 03...	1100	628	112	3.5	5.0						

13190500 - S FK BOISE RIVER AT ANDERSON RANCH DAM ID (LAT 43 20 30 LONG 115 28 40)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 05...	1055	316	63	11.5	9.5	MAY , 1984 29...	1120	3000	61	15.0	10.5
DEC 15...	1120	1550	64	2.5	6.5	JUL 09...	1215	2050	42	21.0	14.0
FEB , 1984 08...	1115	774	76	-5.0	2.5	AUG 22...	1500	812	72	18.5	11.0

13200000 - MORES CREEK AB ROBIE CREEK NR ARROWROCK DAM ID (LAT 43 38 53 LONG 115 59 20)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 12...	1020	85	115	6.5	7.0	MAY , 1984 25...	1500	1020	61	13.5	11.0
DEC 09...	1435	179	113	4.5	1.5	JUL 09...	1330	271	78	16.0	16.0
FEB , 1984 15...	1130	322	144	.0	.5	AUG 21...	1500	67	106	28.0	21.0
APR 06...	0845	1240	70	4.5	4.5						

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

BOISE RIVER BASIN--Continued

13202000 - BOISE RIVER NEAR BOISE, IDAHO (LAT 43 36 33 LONG 116 12 27)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
FEB , 1984 14...	1330	1520	78	3.5	5.5						

13205633 - CRANE CR AT 1206 RANCH RD AT BOISE ID (LAT 43 35 48 LONG 116 12 01)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983 13...	0920	.45	242	12.0	13.0	JUL , 1984 05...	1500	.69	447	23.0	18.0
FEB , 1984 15...	1310	8.3	172	4.5	3.5	AUG 30...	1045	.49	275	22.0	18.0
APR 10...	1320	11	--	10.0	7.5						

13206000 - BOISE RIVER AT GLENWOOD BRIDGE NEAR BOISE ID (LAT 43 39 37 LONG 116 16 41)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983 02...	1130	228	144	14.0	12.0	APR , 1984 06...	1240	1100	108	5.0	6.5
DEC 08...	0950	282	132	2.0	6.5	MAY 16...	1648	6820	182	16.5	9.5
JAN , 1984 11...	1530	5250	--	-.5	3.5	JUL 10...	0950	1390	77	16.5	12.5
FEB 16...	1250	1600	153	1.0	3.0	AUG 23...	1000	1030	72	20.0	13.0

13210050 - BOISE RIVER NEAR MIDDLETON, ID (LAT 43 41 06 LONG 116 34 22)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
DEC , 1983 08...	1340	452	249	5.5	6.5	AUG , 1984 23...	1300	358	159	24.0	17.5

13211309 - INDIAN CR AB WASTE WATER PLANT NR NAMPA ID (LAT 43 35 50 LONG 116 34 42)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983 12...	1335	75	536	15.5	14.0	APR , 1984 10...	1145	36	756	12.5	12.5
DEC 16...	1420	49	752	2.0	11.0	JUL 05...	1330	66	195	25.0	16.0
FEB , 1984 15...	1545	41	714	2.0	10.0						

13213000 - BOISE RIVER NR PARMA ID (LAT 43 46 54 LONG 116 58 17)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983 03...	1330	2090	342	13.5	14.5	APR , 1984 12...	1240	1910	311	17.0	10.5
DEC 16...	1010	2210	391	.5	5.5	MAY 17...	1403	6980	150	20.0	13.0
FEB , 1984 15...	1045	2970	319	1.5	4.0						

SNAKE RIVER MAIN STEM--Continued

13213100 - SNAKE RIVER AT NYSSA, OR (LAT 43 52 34 LONG 116 59 02)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
OCT , 1983 03...	1045	14100	540	15.5	14.5	APR , 1984 13...	1145	39500	342	17.0	9.5
DEC 14...	1055	25000	526	3.5	5.5	MAY 17...	1155	50400	287	17.5	12.5
FEB , 1984 16...	1110	19700	538	2.5	4.0	AUG 06...	1530	15800	570	27.0	23.0

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PAYETTE RIVER BASIN

13235000 - S FK PAYETTE RIVER AT LOWMAN ID (LAT 44 05 05 LONG 115 37 10)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 04...	1225	476	81	14.5	9.0	APR , 1984 09...	1230	720	77	9.5	6.0
DEC 15...	1150	460	82	1.0	2.5	MAY 16...	1030	3700	50	6.0	4.0
FEB , 1984 17...	1055	388	97	-.5	3.0	AUG 08...	1115	797	72	17.0	12.0

13236500 - DEADWOOD RIVER BL DEADWOOD RES NR LOWMAN, ID (LAT 44 17 30 LONG 115 39 33)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
JAN , 1984 17...	0930	.36	--	--	.0	JUL , 1984 17...	1200	478	39	20.0	6.0
MAY 21...	1020	1.9	44	16.0	4.5	SEP 18...	1045	1.4	39	14.0	12.0
JUN 12...	1415	1400	42	9.5	6.5						

13239000 - N FK PAYETTE RIVER AT MCCALL ID (LAT 44 54 30 LONG 116 07 10)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983 16...	1400	272	19	9.5	7.5	JUN , 1984 07...	0915	2170	19	9.5	9.5
JAN , 1984 10...	1315	118	20	1.5	2.5	JUL 19...	1045	212	18	20.0	19.0
MAR 13...	1155	55	--	2.0	1.5	SEP 20...	1000	368	17	17.0	17.5
MAY 17...	0810	1290	18	4.5	4.5						

13240000 - LAKE FK PAYETTE RIVER AB JUMBO CR NR MCCALL, ID (LAT 44 54 50 LONG 115 59 10)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983 16...	1010	96	23	7.5	1.5	JUL , 1984 19...	0915	144	23	19.0	12.0
FEB , 1984 14...	1618	45	--	6.0	.0	SEP 19...	1415	20	39	17.0	12.0
JUN 06...	1440	636	20	8.0	5.0						

13245000 - N FK PAYETTE RIVER AT CASCADE ID (LAT 44 31 30 LONG 116 02 45)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983 14...	1640	209	31	7.5	7.5	JUN , 1984 13...	1412	3130	328	21.0	15.5
MAR , 1984 12...	1515	166	42	6.5	2.5	JUL 16...	1530	888	32	28.0	14.0
MAY 14...	1615	2420	--	11.0	9.0	SEP 17...	1815	2090	34	24.5	17.0
JUN 04...	1550	2380	36	12.5	13.5						

13246000 - NORTH FORK PAYETTE RIVER NEAR BANKS, ID (LAT 44 06 50 LONG 116 06 25)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983 14...	0945	1170	39	5.5	4.5	JUN , 1984 04...	1145	3090	39	11.5	12.5
JAN , 1984 09...	1145	1730	35	2.5	2.5	JUL 16...	1245	1060	38	27.0	19.0
MAR 12...	1115	353	53	4.5	5.0	SEP 17...	0945	2280	36	12.0	15.0
MAY 14...	1115	4630	--	8.0	7.0						

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WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

PAYETTE RIVER BASIN--Continued

13247500 - PAYETTE RIVER NEAR HORSESHOE BEND, ID (LAT 43 56 35 LONG 116 11 45)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 04...	1620	2720	55	26.5	13.5	APR , 1984 10...	1110	5020	59	10.0	6.0
DEC 13...	1045	1770	122	.0	2.5	MAY 16...	1345	11500	52	12.0	6.0
FEB , 1984 14...	1118	2120	73	2.5	2.0	AUG 09...	1030	3360	48	26.0	19.0

13249500 - PAYETTE RIVER NEAR EMMETT, IDAHO (LAT 43 55 50 LONG 116 26 30)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 05...	1335	1990	56	23.0	14.5	FEB , 1984 14...	1230	2880	92	4.5	1.0
DEC 13...	1240	2280	85	3.0	3.0	AUG 13...	1400	1680	53	25.0	21.0

13250000 - PAYETTE RIVER NEAR LETHA, ID (LAT 43 53 00 LONG 116 37 00)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 06...	1035	1500	134	11.5	13.5	AUG , 1984 13...	1105	1060	90	23.5	21.0
APR , 1984 11...	1410	5870	76	10.0	9.0						

13251000 - PAYETTE RIVER NR PAYETTE,ID (LAT 44 02 33 LONG 116 55 27)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 05...	0930	2130	139	9.0	13.5	APR , 1984 11...	1130	6350	96	10.0	6.5
DEC 12...	1110	3710	153	4.5	3.5	JUN 19...	1240	11100	57	27.0	12.0
FEB , 1984 13...	0955	1800	--	2.5	2.5	AUG 07...	1245	1590	157	21.0	21.0

WEISER RIVER BASIN

13258500 - WEISER RIVER NR CAMBRIDGE ID (LAT 44 34 47 LONG 116 38 20)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983 17...	1145	628	115	11.0	7.5	JUN , 1984 07...	1325	2520	57	13.5	10.0
JAN , 1984 11...	1655	244	134	-.5	1.5	JUL 11...	1430	406	58	25.0	17.5
MAR 14...	1400	3510	74	6.0	4.0	SEP 20...	1730	138	120	17.0	19.0

13266000 - WEISER RIVER NEAR WEISER, IDAHO (LAT 44 16 23 LONG 116 45 23)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983 17...	1620	534	136	12.0	8.5	JUN , 1984 08...	0900	3390	65	11.0	11.0
JAN , 1984 13...	1400	599	116	-2.0	1.0	JUL 10...	1500	686	68	30.0	22.0
MAR 15...	1200	9400	84	7.5	3.5	SEP 21...	1045	370	136	17.0	15.0

WILDHORSE RIVER BASIN

13289960 - WILDHORSE RIVER AT BROWNLEE DAM, ID (LAT 44 51 08 LONG 116 53 24)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983 16...	1415	57	165	9.0	6.5	MAY , 1984 23...	1348	736	103	15.0	9.0
JAN , 1984 26...	1055	57	164	.0	1.5	JUL 26...	1645	79	163	37.0	21.5
MAR 22...	1416	775	80	8.0	5.0	SEP 28...	0955	40	153	11.0	7.0

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PINE CREEK BASIN

13290190 - PINE CREEK NEAR OXBOW OREGON (LAT 44 57 13 LONG 116 52 21)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983						MAY , 1984					
16...	1005	210	125	8.0	6.0	23...	0957	1420	78	12.0	7.0
JAN , 1984						JUL					
25...	1200	191	120	6.0	.0	25...	1445	222	116	34.0	21.5
MAR						SEP					
21...	1245	2580	85	9.0	5.0	28...	1100	94	152	15.0	9.5

SALMON RIVER BASIN

13296500 - SALMON RIVER BELOW YANKEE FORK, NEAR CLAYTON, ID (LAT 44 16 06 LONG 114 43 55)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983						JUN , 1984					
15...	1510	336	102	6.0	2.0	04...	1205	4000	59	15.0	5.5
JAN , 1984						JUL					
16...	1515	479	99	-5.0	.0	24...	1455	1700	--	15.0	16.0
MAR						SEP					
12...	1530	490	116	--	--	10...	1345	681	129	15.0	5.0
MAY											
07...	1155	749	101	5.0	4.0						

13297330 - THOMPSON CREEK NEAR CLAYTON IDAHO (LAT 44 15 36 LONG 114 30 50)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983						JUN , 1984					
19...	0920	15	225	-4.0	1.0	04...	1430	75	110	13.0	6.5
JAN , 1984						JUL					
16...	1700	12	200	-2.0	.0	27...	1130	20	196	17.5	15.0
MAR						SEP					
13...	0905	11	296	--	--	13...	1545	9.0	217	19.5	14.0
MAY											
07...	1410	13	242	10.0	10.0						

13297350 - BRUNO CREEK NEAR CLAYTON, IDAHO (LAT 44 17 56 LONG 114 28 50)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983						JUN , 1984					
16...	1345	1.3	568	.0	4.0	05...	1340	10	206	14.0	5.5
JAN , 1984						JUL					
17...	0944	1.3	401	-10.0	1.0	27...	1255	1.3	436	19.0	15.0
MAR						SEP					
13...	1125	1.3	573	--	--	14...	0855	1.1	541	2.0	4.5
MAY											
08...	1215	1.6	515	10.0	8.0						

13297355 - SQUAW CREEK BELOW BRUNO CREEK NEAR CLAYTON, ID (LAT 44 17 26 LONG 114 28 15)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983						JUN , 1984					
16...	1510	26	242	1.0	1.0	05...	1440	181	103	14.5	8.0
JAN , 1984						JUL					
17...	1140	19	193	-20.0	.0	27...	1430	35	188	19.5	18.0
MAR						SEP					
13...	1035	18	237	--	--	14...	1045	18	256	5.0	4.0
MAY											
08...	1310	29	210	15.0	8.0						

13297450 - LITTLE BOULDER CREEK NEAR CLAYTON IDAHO (LAT 44 05 57 LONG 114 26 56)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983						JUN , 1984					
16...	1120	13	105	1.5	.5	05...	1135	45	64	8.5	5.0
JAN , 1984						JUL					
17...	1510	8.2	94	-10.0	.5	26...	1630	55	58	16.0	16.0
MAR						SEP					
14...	1210	7.6	123	--	--	13...	1115	13	100	8.0	4.5
MAY											
08...	1045	5.2	116	15.0	3.0						

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SALMON RIVER BASIN--Continued

13297597 - HERD CR BL TRAIL GULCH NR CLAYTON ID (LAT 44 08 56 LONG 114 17 22)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983						JUN , 1984					
15...	0900	44	199	-4.0	.5	05...	0933	191	164	13.0	5.5
JAN , 1984						JUL					
19...	1045	25	221	-.5	.0	27...	0845	98	196	--	10.5
MAR						SEP					
14...	1415	26	139	--	--	11...	1530	47	210	16.5	14.0
MAY											
08...	0835	37	209	5.0	2.5						

13298570 - 12N 20E 15ACC1 WARM SPRINGS NR CHALLIS,ID (LAT 44 22 20 LONG 114 04 45)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983						DEC , 1983					
16...	0945	4.9	505	1.5	5.0	01...	1620	.91	552	-5.0	.0

13298580 - 12N-20E-10CBD1S WARM SPRINGS (LAT 44 22 54 LONG 114 05 14)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983						APR , 1984					
14...	1730	17	671	7.0	34.0	05...	1425	59	706	6.0	32.5
16...	1100	20	657	8.0	34.0	MAY					
DEC						09...	1308	46	707	26.5	32.5
02...	0900	39	--	-3.0	33.0	JUL					
JAN , 1984						19...	1505	55	688	25.0	32.5
05...	1450	54	705	--	32.0	AUG					
20...	1000	53	705	-12.0	32.0	09...	0735	46	694	14.0	27.5
FEB						SEP					
08...	1540	55	622	-1.0	32.0	12...	0700	52	588	7.0	32.0
MAR											
08...	1330	62	705	2.0	32.0						

13299910 - 12N-23E-31CCC1S DOUBLESPRINGS (LAT 44 19 20 LONG 113 47 16)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983						DEC , 1983					
17...	1500	5.9	227	9.0	5.0	01...	1120	5.5	255	7.0	4.5

13301530 - SULPHUR CREEK NR MAY, IDAHO (LAT 44 30 29 LONG 113 56 40)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983						SEP , 1984					
30...	1225	.70	249	-15.0	.0	11...	1240	2.1	250	19.5	10.5
JUL , 1984											
17...	1150	10	--	18.0	14.5						

13301532 - SULFUR CREEK BL SULFUR SPRING (LAT 44 31 20 LONG 113 55 28)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983						AUG , 1984					
30...	1400	27	345	-13.0	12.5	07...	1405	25	364	25.5	15.0
JUL , 1984						SEP					
17...	1210	25	366	18.0	15.0	11...	1300	28	359	19.5	15.0

13301535 - 14N-21E-13AAC1 SULPHUR CR AT RD CROSSING NR MAY (LAT 44 32 56 LONG 113 54 55)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983						MAR , 1984					
16...	1730	25	350	9.0	13.5	09...	0858	26	388	-6.0	11.0
30...	1455	25	337	-8.0	12.5	APR					
JAN , 1984						05...	1002	22	364	9.0	17.5
04...	1255	23	355	2.0	12.5	MAY					
18...	1415	24	364	--	11.5	03...	7152	20	362	23.0	16.0
FEB , 1984						MAY					
09...	1005	26	371	-10.0	12.0	03...	1715	20	362	23.0	16.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

SALMON RIVER BASIN--Continued

13302005 - PAHSIMEROI RIVER AT MOUTH NR MAY (LAT 44 41 31 LONG 114 02 51)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
MAY , 1984 09...	1118	246	338	17.5	9.5	SEP , 1984 11...	1435	360	368	20.0	14.0
JUL 17...	1440	417	397	29.0	17.0						

13302500 - SALMON RIVER AT SALMON, IDAHO (LAT 45 11 00 LONG 113 53 40)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983 17...	1530	2000	235	5.5	4.0	JUL , 1984 25...	1335	3470	197	24.0	19.5
MAY , 1984 09...	1105	1650	243	15.0	12.0	SEP 12...	1500	1540	67	14.0	15.0
JUN 06...	1305	7060	133	16.0	11.0						

13305000 - LEMHI RIVER NR LEMHI ID (LAT 44 56 24 LONG 113 38 16)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983 17...	1240	399	396	3.0	3.5	JUN , 1984 06...	1010	932	272	14.5	7.5
JAN , 1984 18...	1115	230	266	-10.0	.0	JUL 26...	1040	388	394	25.0	14.5
MAR 15...	0930	313	386	--	--	SEP 12...	1125	239	484	8.5	9.5
MAY 09...	1010	392	360	6.0	8.5						

13310000 - BIG CK NR BIG CREEK ID (LAT 45 07 00 LONG 114 55 00)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
APR , 1984 16...	1425	219	92	22.0	6.5

13311000 - EAST FORK OF S FK SALMON R AT STIBNITE ID (LAT 44 56 21 LONG 115 19 42)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983 15...	1325	21	31	13.5	2.5	JUL , 1984 18...	1230	51	68	22.0	9.5
APR , 1984 17...	0930	23	116	3.5	1.5	SEP 18...	1515	13	98	24.0	11.5

13312300 - TRANSMOUNTAIN DIV NR KNOW ID (LAT 44 32 30 LONG 115 34 00)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
JUL , 1984 17...	1630	9.9	29	26.0	14.0

13313000 - JOHNSON CREEK AT YELLOW PINE, IDAHO (LAT 44 57 44 LONG 115 29 58)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
NOV , 1983 15...	1520	240	67	13.0	3.5	JUN , 1984 06...	1600	1800	38	7.5	6.5
FEB , 1984 16...	0918	119	80	.5	.5	JUL 17...	1630	441	63	23.0	11.5
APR 16...	1425	219	92	22.0	6.5	SEP 19...	0830	110	93	9.0	9.0
MAY 15...	1530	1470	25	2.5	3.5						

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

SALMON RIVER BASIN --Continued

13316500 - LITTLE SALMON RIVER AT RIGGINS, IDAHO (LAT 45 24 47 LONG 116 19 29)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983 14...	1740	564	100	8.5	5.5	MAY , 1984 25...	1030	3050	262	18.0	6.0
JAN , 1984 23...	1700	309	127	2.0	1.5	JUL 23...	1830	640	102	31.0	14.5
MAR 19...	1705	832	102	12.5	7.0	SEP 24...	1440	302	141	10.0	10.0

SNAKE RIVER MAIN STEM-Continued

13334300 - SNAKE RIVER NEAR ANATONE, WASH. (LAT 46 05 50 LONG 116 58 36)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
NOV , 1983 18...	0903	35200	337	10.5	9.5	MAR , 1984 22...	0925	85000	166	13.0	6.0
JAN , 1984 20...	0950	44600	340	-4.0	1.5	MAY 25...	0832	146000	144	21.0	11.0

CLEARWATER RIVER BASIN

13336500 - SELWAY RIVER NR LOWELL ID (LAT 46 05 12 LONG 115 30 46)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 17...	1500	383	31	15.5	9.0	MAY , 1984 01...	0640	4540	22	8.5	5.5
DEC 14...	0720	1120	30	2.5	1.5	JUN 18...	1725	18000	14	22.0	9.5
FEB , 1984 14...	1450	2370	32	9.5	2.0	AUG 22...	0900	826	33	17.0	17.0

13337000 - LOCHSA RIVER NR LOWELL ID (LAT 46 09 02 LONG 115 35 11)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 18...	0755	681	37	6.0	7.0	MAY , 1984 01...	0830	3730	23	10.0	5.5
DEC 14...	1110	949	37	3.5	2.0	JUN 19...	0717	11200	16	10.5	9.0
FEB , 1984 14...	1500	1800	32	9.0	2.0	AUG 21...	0736	581	40	9.5	15.5

13338500 - S FK CLEARWATER RIVER AT STITES, IDAHO (LAT 46 05 12 LONG 115 58 32)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 18...	1125	237	66	12.5	9.5	MAY , 1984 01...	1035	2310	66	13.0	7.5
DEC 14...	1410	367	123	5.0	3.5	JUN 19...	1030	4570	38	19.5	10.5
FEB , 1984 15...	0845	814	105	4.0	1.0	AUG 23...	1415	259	67	30.0	22.0

3339500 - LOLO CR NR GREER ID (LAT 46 22 20 LONG 116 09 40)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 18...	1536	61	42	8.0	8.5	MAY , 1984 01...	1200	724	24	10.0	5.5
DEC 15...	1520	208	50	5.0	3.0	JUN 19...	1502	492	25	18.0	12.0
FEB , 1984 15...	1000	480	74	5.5	1.0	AUG 30...	1605	39	42	23.0	16.0

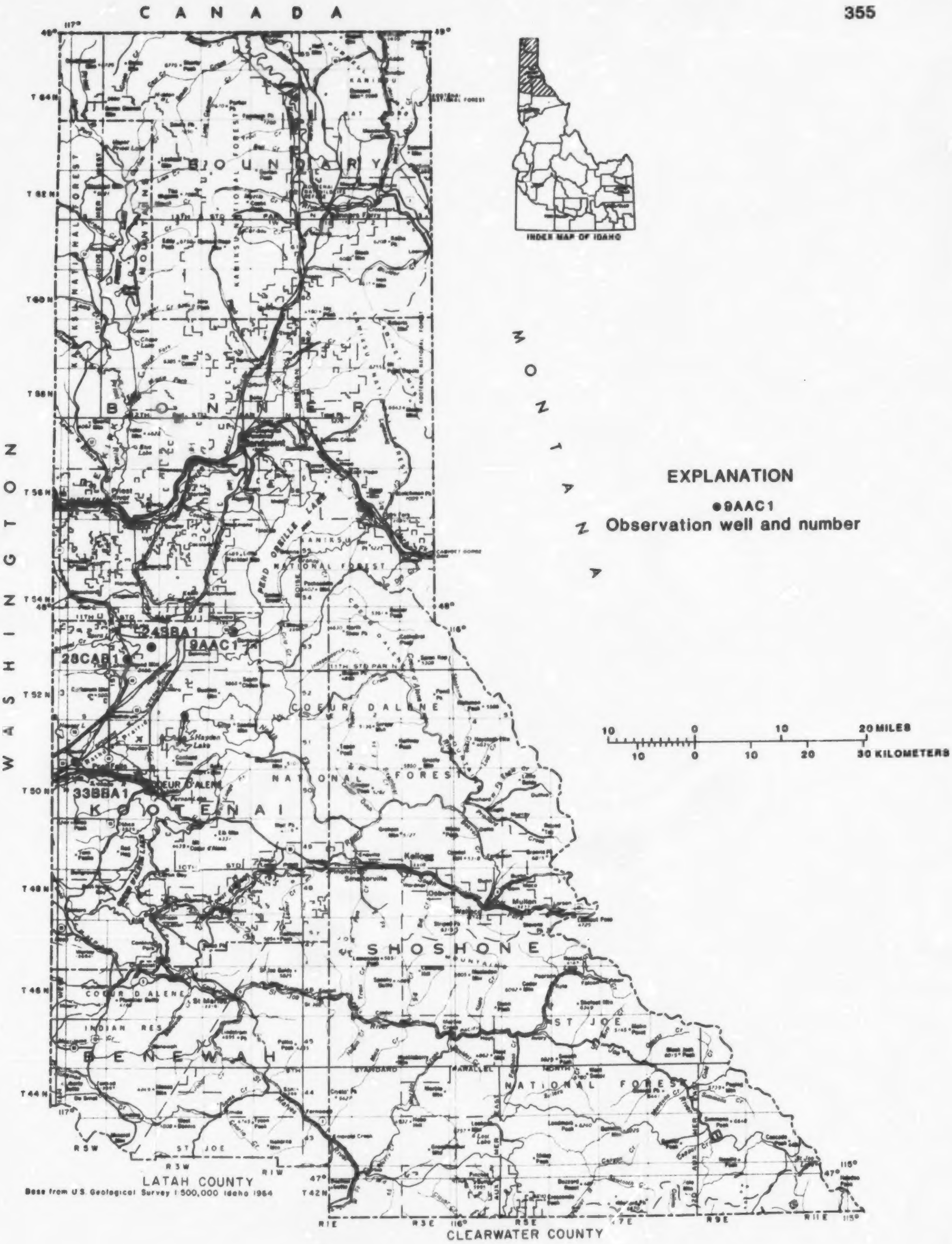
13340000 - CLEARWATER RIVER AT OROFINO, IDAHO (LAT 46 28 43 LONG 116 15 23)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)
OCT , 1983 20...	1010	2030	124	13.0	8.5	MAY , 1984 01...	1735	13200	32	13.0	5.5
DEC 12...	1245	3360	77	14.0	4.5	JUN 20...	0550	37000	28	12.5	11.0
FEB , 1984 15...	1425	7000	86	9.0	2.0	AUG 30...	1115	1610	67	15.5	16.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)
CLEARWATER RIVER BASIN--Continued											
13340600 - N FK CLEARWATER R NR CANYON RANGER STATION ID (LAT 46 50 26 LONG 115 37 11)											
OCT , 1983 19...	0805	952	46	5.5	6.5	JUN , 1984 21...	0330	13300	30	14.5	10.0
FEB , 1984 29...	1035	1540	38	6.5	2.5	AUG 29...	0734	905	48	10.0	16.5
APR 30...	1445	5060	33	15.0	5.0						
13340612 - SOUCIE CREEK NR CANYON RS (LAT 46 47 57 LONG 115 39 13)											
OCT , 1983 19...	1245	2.2	[illegible]2	2.5	4.5	JUN , 1984 28...	1900	4.6	37	30.0	11.0
DEC 15...	1112	2.9	40	3.0	4.0	AUG 29...	1250	2.4	44	15.5	9.0
13340859 - SNAKE CREEK NR HEADQUARTERS (LAT 46 36 29 LONG 115 56 29)											
OCT , 1983 19...	1630	5.7	60	11.0	7.0	JUN , 1984 20...	1107	18	49	22.0	12.0
DEC 15...	0905	25	45	2.0	3.0	AUG 29...	1625	3.0	64	16.0	15.5
13341050 - CLEARWATER RIVER NEAR PECK, IDAHO (LAT 46 30 00 LONG 116 23 30)											
OCT , 1983 20...	0840	5120	35	14.0	11.0	JUN , 1984 20...	1522	50700	20	16.0	11.0
JAN , 1984 17...	0735	13900	36	-11.0	3.0	AUG 30...	0645	3660	33	13.5	14.0
MAY 01...	1100	23400	34	13.5	6.0						
13341128 - LONG HOLLOW CR AT NEZ PERCE ID (LAT 46 14 03 LONG 116 14 10)											
JAN , 1984 17...	1520	1.0	480	-15.0	.5	MAY , 1984 23...	0945	26	162	13.0	6.0
MAR 22...	1600	9.9	261	5.0	3.0	JUN 18...	1420	.47	475	23.0	25.5
13342450 - LAPWAI CREEK NR LAPWAI ID (LAT 46 25 36 LONG 116 49 15)											
NOV , 1983 17...	0755	27	272	8.5	8.0	JUL , 1984 23...	1401	12	268	31.0	23.0
JAN , 1984 19...	0847	26	351	-9.0	.5	SEP 24...	1500	32	210	16.0	13.5
MAY 24...	0946	229	136	8.5	9.5						
PALOUSE RIVER BASIN											
13345000 - PALOUSE RIVER NR POTLATCH ID (LAT 45 54 55 LONG 116 57 00)											
NOV , 1983 17...	1300	262	63	11.0	6.0	MAY , 1984 22...	1420	244	43	24.0	12.0
FEB , 1984 06...	1255	222	67	5.0	2.0	JUL 24...	1025	27	66	26.5	22.5
MAR 20...	1210	1340	66	15.0	7.5	SEP 24...	1055	37	75	16.0	10.5
13346800 - PARADISE CR AT UNIVERSITY OF IDAHO AT MOSCOW, ID (LAT 46 43 55 LONG 117 01 24)											
NOV , 1983 17...	1031	8.9	189	10.0	8.0	MAY , 1984 24...	1300	3.0	196	15.0	13.0
JAN , 1984 16...	1700	1.9	416	-3.0	2.5	JUL 23...	1155	.45	520	30.0	24.0
MAR 20...	1325	20	192	16.5	10.0	SEP 27...	1310	.17	477	19.5	12.5
13350448 - COW CR AT GENESEE ID (LAT 46 32 48 LONG 116 55 37)											
MAR , 1984 20...	1405	34	225	18.0	11.5	SEP , 1984 27...	1200	.41	273	18.0	10.5
MAY 24...	1115	5.1	164	11.5	12.0						

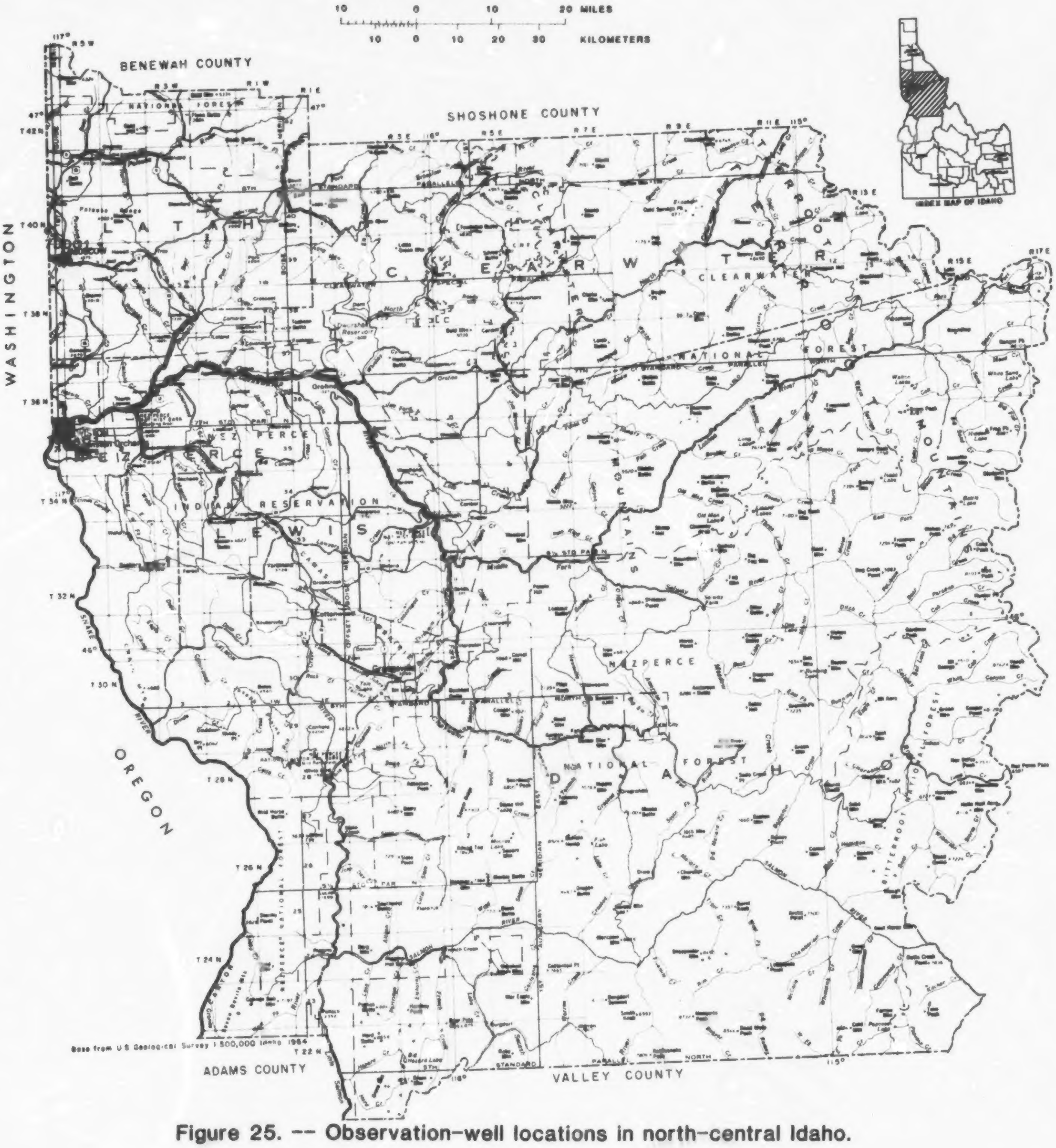

CANADA
WASHINGTON
MONTANA
BOUNDARY
BONNER
KOOTENAI
SHOSHONE
BENEWAH
COEUR D'ALENE NATIONAL FOREST
KANIKSU NATIONAL FOREST
ST JOE NATIONAL FOREST
COEUR D'ALENE INDIAN RES
LATAH COUNTY
CLEARWATER COUNTY
24BBA1
9AAC1
28CAB1
33BBA1
INDEX MAP OF IDAHO
EXPLANATION
●9AAC1
Observation well and number
10 0 10 20 MILES
10 0 10 20 30 KILOMETERS
117°
116°
115°
49°
48°
47°
T 64 N
T 62 N
T 60 N
T 58 N
T 56 N
T 54 N
T 52 N
T 50 N
T 48 N
T 46 N
T 44 N
T 42 N
R 5 W
R 3 W
R 1 W
R 1 E
R 3 E
R 5 E
R 7 E
R 9 E
R 11 E

Base from U.S. Geological Survey 1:500,000 Idaho 1964

Figure 24. -- Observation-well locations in north Idaho.

EXPLANATION

●7DDC1
Observation well and number


10 0 10 20 MILES
10 0 10 20 30 KILOMETERS
INDEX MAP OF IDAHO
BENEWAH COUNTY
SHOSHONE COUNTY
WASHINGTON
OREGON
MONTANA
ADAMS COUNTY
VALLEY COUNTY
LATAH
CLEARWATER
NEZ PERCE
LEWIS
IDAHO
NEZ PERCE INDIAN RESERVATION
CLEARWATER NATIONAL FOREST
BITTERROOT MOUNTAINS
NEZPERCE NATIONAL FOREST
CLEARWATER MOUNTAINS
117°
116°
115°
47°
46°
T 42 N
T 40 N
T 38 N
T 36 N
T 34 N
T 32 N
T 30 N
T 28 N
T 26 N
T 24 N
T 22 N
R 5 W
R 3 W
R 1 W
R 1 E
R 3 E
R 5 E
R 7 E
R 9 E
R 11 E
R 13 E
R 15 E
R 17 E

Base from U.S. Geological Survey 1:500,000 Idaho 1964

Figure 25. -- Observation-well locations in north-central Idaho.

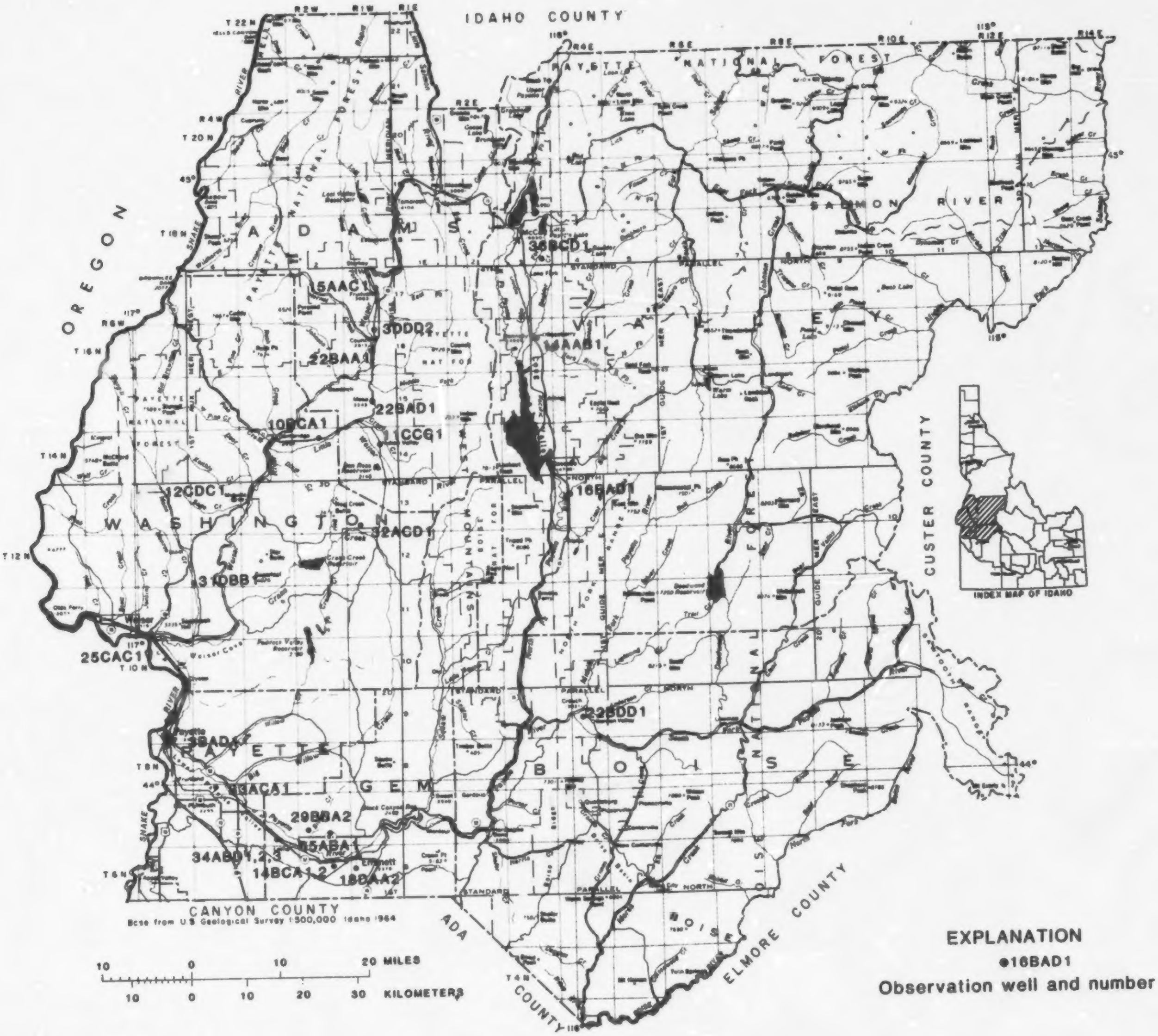

IDAHO COUNTY
OREGON
ADAMS
VALLEY
WASHINGTON
PAYETTE
GEM
BOISE
CANYON COUNTY
ADA COUNTY
ELMORE COUNTY
CUSTER COUNTY
PAYETTE NATIONAL FOREST
SALMON RIVER
36BCD1
5AAC1
30DD2
22BAA1
14AAB1
22BAD1
10BCA1
11CCG1
12CDC1
16BAD1
32ACD1
31DBB1
25CAC1
22BDD1
32ADA7
33ACA1
29BBA2
34ABD1,2,3
35ABA1
14BCA1,2
18DAA2
Base from U.S. Geological Survey 1:500,000 Idaho 1964
10 0 10 20 MILES
10 0 10 20 30 KILOMETERS
INDEX MAP OF IDAHO
EXPLANATION
●16BAD1
Observation well and number

Figure 26. -- Observation-well locations in west-central Idaho.

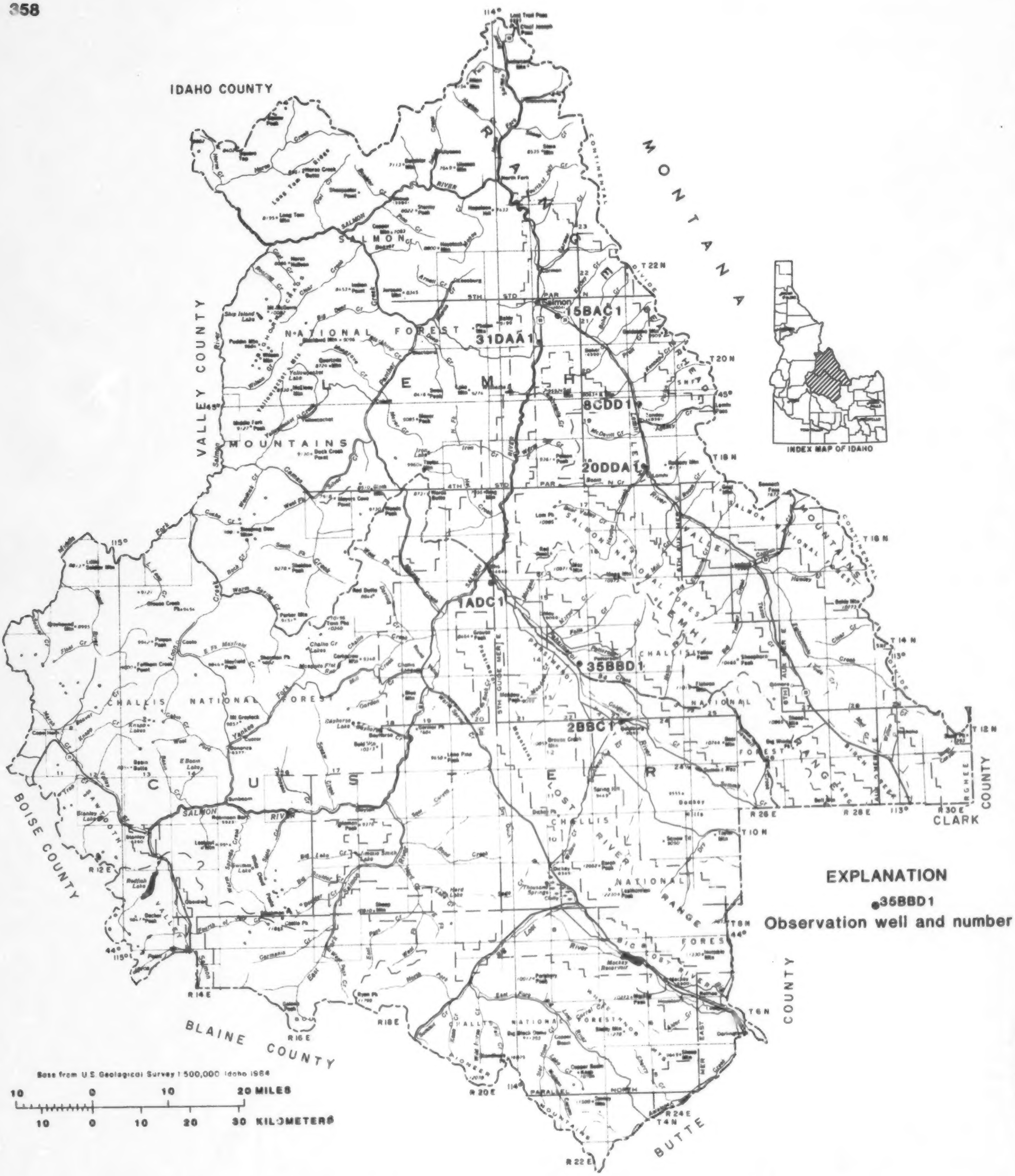

IDAHO COUNTY
MONTANA
VALLEY COUNTY
BOISE COUNTY
BLAINE COUNTY
BUTTE
CLARK COUNTY
COUNTY
15BAC1
31DAA1
8CDD1
20DDA1
1ADC1
35BBD1
2BBC1
SALMON
NATIONAL FOREST
LEMHI
MOUNTAINS
CHALLIS NATIONAL FOREST
SALMON NATIONAL FOREST
LEMHI RANGE
CHALLIS NATIONAL FOREST
LOST RIVER
NATIONAL RANGE
FOREST
CONTINENTAL DIVIDE
114°
115°
113°
45°
44°
T22N
T20N
T18N
T16N
T14N
T12N
T10N
T8N
T6N
T4N
R12E
R14E
R16E
R18E
R20E
R22E
R24E
R26E
R28E
R30E
INDEX MAP OF IDAHO
EXPLANATION
35BBD1
Observation well and number
Base from U.S. Geological Survey 1:500,000 Idaho 1984
10 0 10 20 MILES
10 0 10 20 30 KILOMETERS

Figure 27. -- Observation-well locations in east-central Idaho.

BEST COPY AVAILABLE

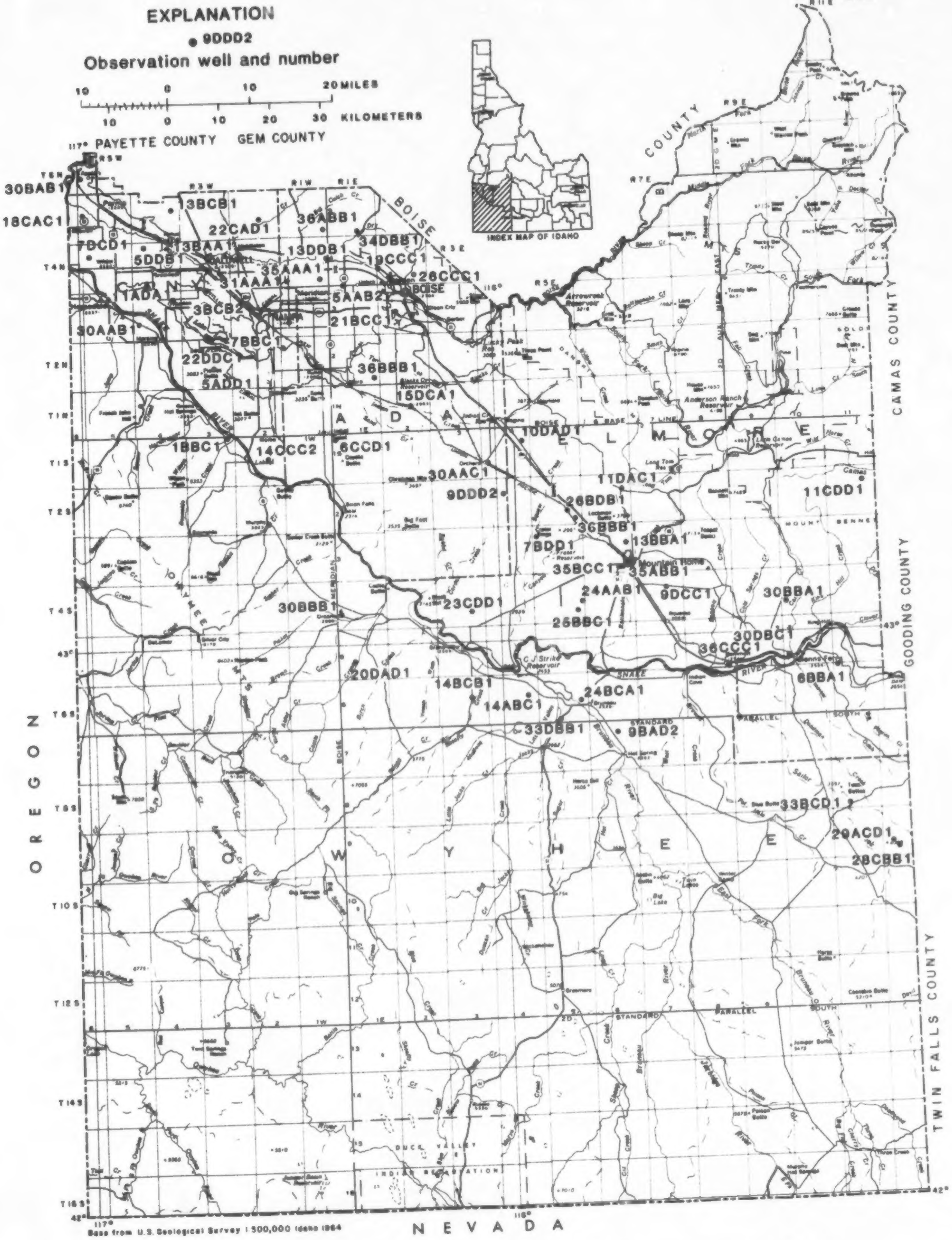
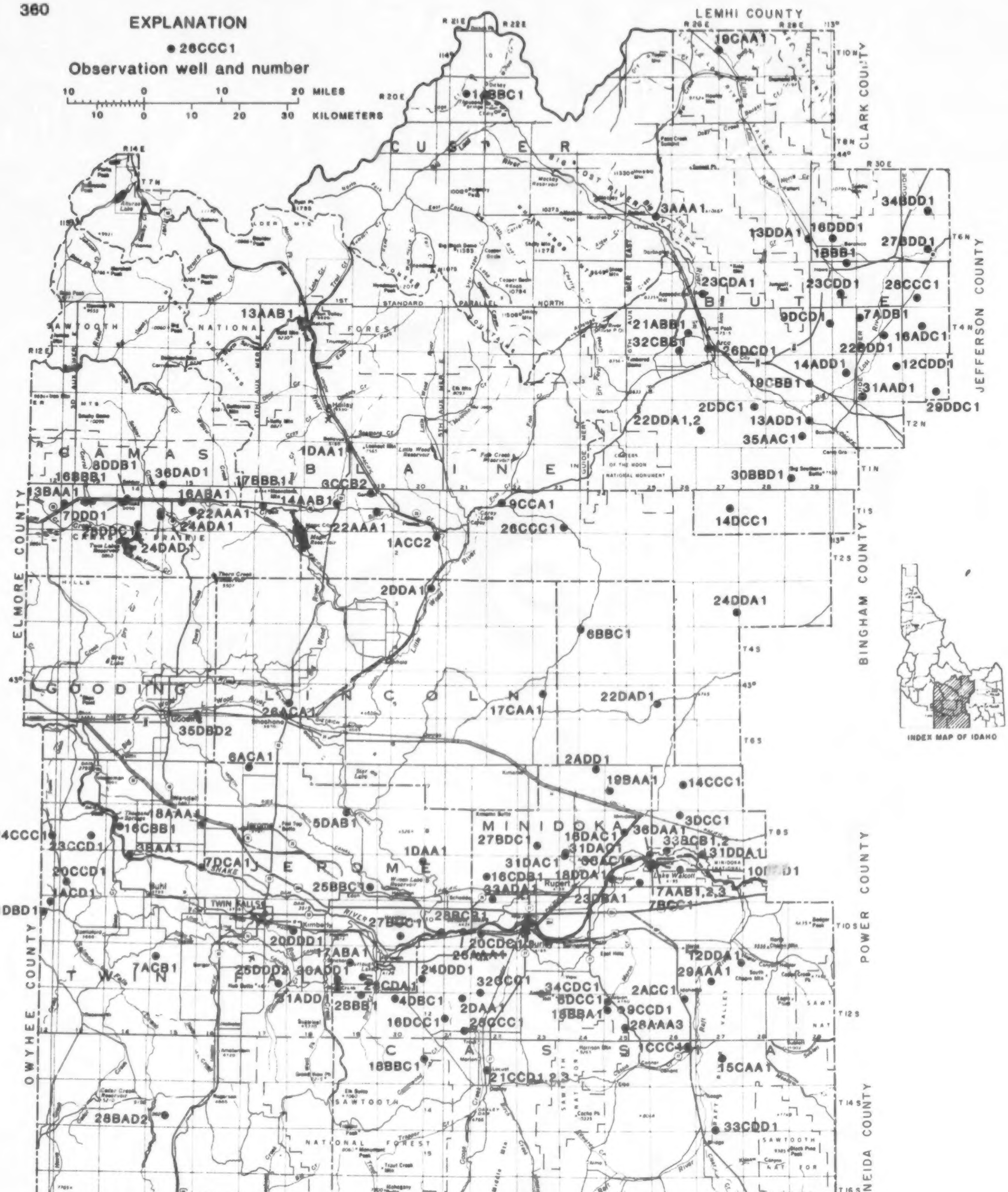

EXPLANATION
● 9DDD2
Observation well and number
10 0 10 20 MILES
10 0 10 20 30 KILOMETERS
INDEX MAP OF IDAHO
PAYETTE COUNTY
GEM COUNTY
BOISE COUNTY
CAMAS COUNTY
GOODING COUNTY
TWIN FALLS COUNTY
OREGON
NEVADA
CANYON
ADA
ELMORE
OWYHEE
BOISE
Mountain Home
SNAKE RIVER
DUCK VALLEY INDIAN RESERVATION
30BAB1
18CAC1
7DCD1
5DDB1
1ADA1
30AAB1
3BCB1
22CAD1
13BAA1
3BCB2
31AAA1
7BBC1
22DDC1
5ADD1
36ABB1
34DBB1
13DDB1
19CCC1
36AAA1
26CCC1
5AAB2
21BCC1
36BBB1
15DCA1
10DAD1
1BBC1
14CCC2
6CCD1
30AAC1
9DDD2
11DAC1
11CDD1
26BDB1
36BBB1
13BBA1
7BDD1
35BCC1
35ABB1
24AAB1
9DCC1
30BBA1
30BBB1
23CDD1
25BBC1
30DBC1
36CCC1
6BBA1
20DAD1
14BCB1
14ABC1
24BCA1
33DBB1
9BAD2
33BCD1
29ACD1
28CBB1
117°
116°
43°
42°
T6N
T4N
T2N
T1N
T1S
T2S
T4S
T6S
T8S
T10S
T12S
T14S
T16S
R5W
R3W
R1W
R1E
R3E
R5E
R7E
R9E
R11E
Base from U.S. Geological Survey 1:500,000 Idaho 1964

Figure 28. -- Observation-well locations in southwest Idaho.


EXPLANATION
● 26CCC1
Observation well and number
10 0 10 20 MILES
10 0 10 20 30 KILOMETERS
LEMHI COUNTY
CLARK COUNTY
JEFFERSON COUNTY
BINGHAM COUNTY
POWER COUNTY
ONEIDA COUNTY
ELMORE COUNTY
OWYHEE COUNTY
NEVADA
UTAH
CUSTER
BUTTE
CAMAS
BLAINE
GOODING
LINCOLN
MINIDOKA
JEROME
TWIN FALLS
CASSIA
INDEX MAP OF IDAHO
19CAA1
1BBC1
3AAA1
34BDD1
13DDA1
16DDD1
27BDD1
1BBB1
23CDA1
23CDD1
28CCC1
13AAB1
21ABB1
32CBB1
26DCD1
9DCD1
7ADB1
22BDD1
16ADC1
14ADD1
12CDD1
19CBB1
31AAD1
2DDC1
29DDC1
22DDA1,2
13ADD1
35AAC1
1DAA1
8DDB1
16BBB1
36DAD1
17BBB1
3CCB2
30BBD1
13BAA1
16ABA1
14AAB1
9CCA1
7DDD1
22AAA1
24ADA1
22AAA1
26CCC1
24DAD1
1ACC2
14DCC1
2DDA1
24DDA1
6BBC1
22DAD1
17CAA1
26ACA1
35DBD2
6ACA1
2ADD1
19BAA1
14CCC1
8AAA1
5DAB1
3DCC1
24CCC1
16CBB1
27BDC1
16DAC1
36DAA1
33BCB1,2
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3BAA1
1DAA1
31DAC1
31DAC1
36AC1
31DDA1
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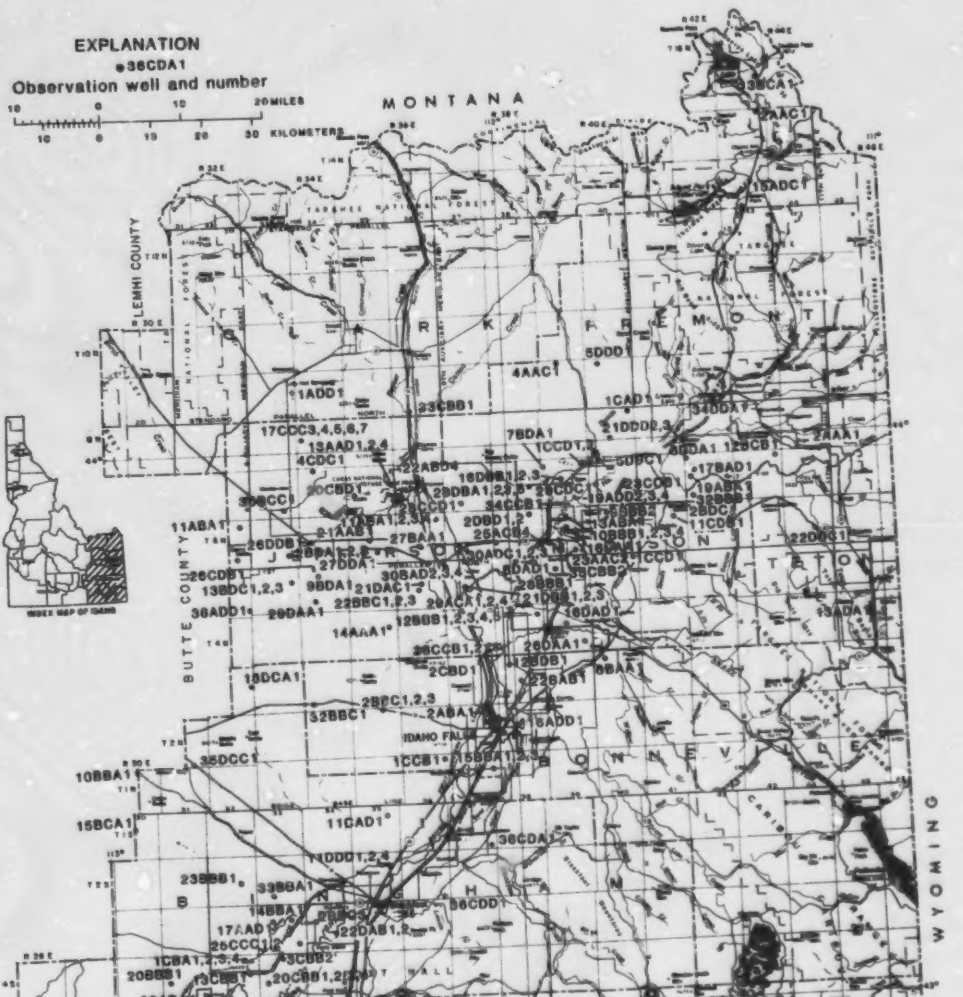
7BCC1
20DDD1
20CDC1
17ABA1
26AAA1
12DDA1
7ACB1
25DDD2
30ADD1
24DDD1
29AAA1
28CDA1
32CCC1
34CDC1
2ACC1
1ADD
2BBB1
4DBC1
8DCC1
2DAA1
16DCC1
15BBA1
29CCD1
28CCC1
28AAA3
1CCC4
18BBC1
15CAA1
21CCD1,2,3
28BAD2
33CDD1
20CDC1
Base from U. S. Geological Survey 1:500,000 Idaho 1964

Figure 29. -- Observation-well locations in south-central Idaho.


EXPLANATION
36CDA1
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WYOMING
UTAH
LEMHI COUNTY
BUTTE COUNTY
BLAINE COUNTY
CASSIA COUNTY
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MADISON
BONNEVILLE
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BANNOCK
POWER
CARIBOU
ONEIDA
FRANKLIN
BEAR LAKE
CLARK
FORT HALL RESERVATION
TARGHEE NATIONAL FOREST
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7AAC1
15ADC1
5DDD1
4AAC1
1ADD1
23CBB1
1CAD1
17CCC3,4,5,6,7
13AAD1,2,4
4CDC1
21DDD2,3
7BDA1
1CCD1,2
22ABD4
28DBA1,2,3,5
16DBB1,2,3
36CCC1
11ABA1
26DDB1
21AAB1
27BAA1
27DDA1
26CDB1
13BDC1,2,3
9BDA1
21DAC1
30BAD2,3,4
22BBC1,2,3
36ADD1
29DAA1
14AAA1
12BBB1,2,3,4,5
17BAD1
19ABA1
32BBD1
2BDC1
11CDB1
22DDC1
13ADA1
2DBD1,2
25ACB1
26BBB1
16DAD1
28DAA1
12DDB1
22BAB1
8BAA1
26CCB1,2
2CBD1
10DCA1
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2ABA1
32BBC1
15ADD1
35DCC1
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10BBA1
15BCA1
11CAD1
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23BBB1
33BBA1
14BBA1
36CDD1
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17AAD1
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20BBB1
3CBB1
20CBB1,2
36ABA1
27ABA1
19DDC1
20CBB2
28BBD1
36CDC1
16BAA1
27ADC1
24DDC1
10CCD1
17CAB1
26BBC1
20CC1
24CBC1,2,3
16BAD1,2,3
5DAD1
29BBA1
36DDD1
16BBB1
22BCC1
4ADD1
13DBA1
16CDC1
9AAA2
22BAB1
27DAB1
9ABB2
16CDA1
5CCB1
26BAD1
31CCD1
Base from U.S. Geological Survey 1:500,000 Idaho 1964

Figure 30. -- Observation-well locations in southeast Idaho.

ADA COUNTY

WELL 05N 01W 36ABB1 SITE NUMBER 434406116240801

DRILLED DOMESTIC WATER-TABLE WELL IN IDAHO GROUP, DIAM 6 IN, REPORTED DEPTH 105 FT, CASED TO 105 FT, OPEN BOTTOM. LSD ABOUT 2,618 FT NGVD OF 1929. MP NO. 1 TOP OF PIPE IN WELL SEAL, 0.70 FT BELOW LSD (SINCE AUG. 27, 1969).

RECORDS AVAILABLE 1969 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 70.57 FEET BELOW LAND SURFACE DATUM SEP 11, 1974.

LOWEST WATER LEVEL 78.02 FEET BELOW LAND SURFACE DATUM MAY 18, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1983	72.58 S	FEB 27, 1984	75.40 S	MAY 21, 1984	76.52 R S	AUG 31, 1984	74.42 S
NOV 21	73.05 S	MAR 20	75.72 S	JUN 26	74.33 S	SEP 25	71.60 S
JAN 23, 1984	74.57 S	APR 25	76.45 S	JUL 18	79.70 P S		

WELL 05N 01E 34DBB1 SITE NUMBER 434341116192001

DRILLED IRRIGATION WATER-TABLE WELL IN YOUNGER TERRACE GRAVEL, DIAM 14 IN, REPORTED DEPTH 175 FT, CASED TO 175 FT, PERFORATED 0-175 FT, LSD ABOUT 2,680 FT NGVD OF 1929. MP NO. 1 BOTTOM EDGE OF 1/4-IN HOLE IN CASING SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE DEC. 16, 1966).

RECORDS AVAILABLE 1966 - 1976, 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 23.33 FEET BELOW LAND SURFACE DATUM SEP 25, 1984.

LOWEST WATER LEVEL 31.05 FEET BELOW LAND SURFACE DATUM MAY 29, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1983	25.70 S	JAN 23, 1984	28.75 S	APR 25, 1984	29.06 S	JUL 18, 1984	26.23 S
NOV 21	27.37 S	FEB 17	28.76 S	MAY 21	29.29 S	AUG 31	25.41 S
DEC 27	28.18 S	MAR 20	28.82 S	JUN 26	25.71 S	SEP 25	23.33 S

WELL 04N 01W 13DDB1 SITE NUMBER 434048116235101

DRILLED IRRIGATION ARTESIAN WELL IN GLENNS FERRY FORMATION, DIAM 3 IN, DEPTH 130 FT, CASING DEPTH NOT AVAILABLE. LSD 2,524.96 FT NGVD OF 1929. MP NO. 1 TOP OF 3-IN CASING, 1.30 FT ABOVE LSD (SINCE MAR. 2, 1950).

RECORDS AVAILABLE 1950 - 1956, 1957 - 1966, 1967 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.72 FEET ABOVE LAND SURFACE DATUM OCT 22, 1952.

LOWEST WATER LEVEL 4.46 FEET ABOVE LAND SURFACE DATUM MAR 27, 1981.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
APR 02, 1984	4.58 E M	SEP 24, 1984	6.16 E M

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ADA COUNTY--CONTINUED

WELL 04N 01W 31AAA1 SITE NUMBER 433852116293401

DRILLED IRRIGATION ARTESIAN WELL IN IDAHO GROUP, DIAM 6 IN, REPORTED DEPTH 462 FT, CASED TO 455 FT. LSD ABOUT 2,508 FT NGVD OF 1929. MP NO. 1 TOP OF 6-IN CASING PLUG, 3.50 FT ABOVE LSD (SINCE APR. 28, 1967).

RECORDS AVAILABLE 1967 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL   30.62 FEET ABOVE LAND SURFACE DATUM DEC 04, 1968.

LOWEST WATER LEVEL   12.48 FEET ABOVE LAND SURFACE DATUM MAR 23, 1981.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 02, 1984	24.03	E M	SEP 26, 1984	22.46	M

WELL 04N 01W 35AAA1 SITE NUMBER 433852116244801

DUG UNUSED WATER-TABLE WELL IN YOUNGER TERRACE GRAVEL, DIAM 24 IN, DEPTH 44 FT, CASING DEPTH NOT AVAILABLE. LSD 2,570.60 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. WATER LEVEL INFLUENCED BY LOCAL IRRIGATION. JULY 24, 1973, WELL HAD FILLED IN TO A DEPTH OF 32.2 FT. MEASUREMENTS MADE OCT. 13, 1933, THROUGH MAR. 1, 1947, AND NOV. 4, 1947, THROUGH MAR. 11, 1951, MADE BY NAMPA-MERIDIAN IRRIGATION DISTRICT. RECORDER INSTALLED MAY 15, 1953. RECORDER CHANGED TO DIGITAL SEPT. 16, 1975. MP NO. 1 TOP OF CASING NORTH SIDE, 1.30 FT ABOVE LSD (SINCE MAY 22, 1953).

RECORDS AVAILABLE 1933 - 1951, 1952, 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL   1.73 FEET BELOW LAND SURFACE DATUM JUL 10, 1974.

LOWEST WATER LEVEL   12.20 FEET BELOW LAND SURFACE DATUM MAR 15, 1935.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27, 1983	6.89	S	JAN 10, 1984	7.97	MAY 10, 1984	9.10	JUL 25, 1984	4.41
31	7.14		15	8.20	15	9.01	31	3.74
NOV 05	7.43		20	8.40	20	8.67	AUG 05	3.43
10	7.66		25	8.54	25	8.02	10	4.16
15	7.89		31	8.63	31	7.28	15	3.57
20	8.01		FEB 05	8.79	JUN 05	6.91	20	3.67
25	8.21		10	8.91	10	6.75	25	3.87
29	8.31	S	15	8.37	15	6.53	31	3.00
30	8.32		20	7.18	20	6.10	SEP 05	3.22
DEC 05	8.48		25	7.36	24	5.92	10	4.00
10	8.29		29	7.50	25	5.98	15	4.27
15	6.92		MAR 05	7.81	30	5.44	20	4.77
20	6.68		APR 25	9.37	JUL 05	4.28	25	4.79
25	7.08		27	9.38	10	4.49	30	4.83
31	7.54		30	9.33	15	4.59		
JAN 05, 1984	7.82		MAY 05	9.13	20	3.90		

WELL 04N 02E 19CCC1 SITE NUMBER 433946116161401

DRILLED DOMESTIC WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 104 FT, CASED TO 97 FT. LSD ABOUT 2,621 FT NGVD OF 1929. MP NO. 1 TOP OF 6-IN CASING, 0.90 FT ABOVE LSD (SINCE JULY 28, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL   5.20 FEET BELOW LAND SURFACE DATUM SEP 15, 1980.

LOWEST WATER LEVEL   8.95 FEET BELOW LAND SURFACE DATUM JUL 28, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 20, 1984	6.83	S	SEP 26, 1984	6.31	S

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WELL 04N 02E 26CCC1 SITE NUMBER 433856116113001

DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 12 IN, REPORTED DEPTH 741 FT, CASED TO 741 FT, PERFORATED 210-741 FT. LSD 2,877.30 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. FEB. 13, 1975, WELL HAD FILLED IN TO A DEPTH OF 730.2 FT. MP NO. 1 BOTTOM EDGE OF 6 3/8-IN PIPE, 1.50 FT ABOVE LSD (SINCE MAR. 11, 1975).

RECORDS AVAILABLE 1967 - 1975, 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 81.13 FEET BELOW LAND SURFACE DATUM MAY 02, 1967.

LOWEST WATER LEVEL 197.31 FEET BELOW LAND SURFACE DATUM SEP 22, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	171.72	S	MAR 20, 1984	134.18	S	JUL 18, 1984	0		SEP 26, 1984	196.16	S
JAN 26, 1984	146.30	S	MAY 21	151.87	S						

WELL 03N 01E 03AAB2 SITE NUMBER 433802116213101

DRILLED OBSERVATION WATER-TABLE WELL IN YOUNGER TERRACE GRAVEL, DIAM 6 TO 4 IN, DEPTH 82.4 FT, 6-IN CASING 0-79 FT, 4-IN CASING 69.5-82 FT, SCREENED 77.5-82 FT. LSD 2,616.02 FT NGVD OF 1929. RECORDER INSTALLED SEPT. 24, 1953. RECORDER REMOVED NOV. 16, 1954. MP NO. 1 TOP OF 6-IN CASING SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE SEPT. 24, 1953).

RECORDS AVAILABLE 1953 - 1954, 1955 - 1970, 1971 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.24 FEET BELOW LAND SURFACE DATUM SEP 11, 1974.

LOWEST WATER LEVEL 16.04 FEET BELOW LAND SURFACE DATUM MAY 17, 1955.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 27, 1984	11.20	S	SEP 26, 1984	4.30	S

WELL 03N 02E 21BCC1 SITE NUMBER 433502116135201

DRILLED UNUSED WATER-TABLE WELL IN YOUNGER TERRACE GRAVEL, DIAM 14 IN, DEPTH 38 FT, CASING DEPTH NOT AVAILABLE, PERFORATED, INTERVAL NOT AVAILABLE. LSD 2,751.09 FT NGVD OF 1929. MP NO. 3 TOP OF 1 1/2-IN PIPE EAST SIDE, 2.18 FT ABOVE LSD (SINCE JAN. 24, 1975).

RECORDS AVAILABLE 1947 - 1950, 1951 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.34 FEET BELOW LAND SURFACE DATUM AUG 18, 1955.

LOWEST WATER LEVEL 19.11 FEET BELOW LAND SURFACE DATUM MAY 26, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	14.17	S	MAR 26, 1984	18.06	S	JUL 19, 1984	13.41	S	SEP 26, 1984	10.52	S
JAN 26, 1984	16.27	S	MAY 29	17.42	S						

WELL 02N 01E 36BBB1 SITE NUMBER 432825116173501

DRILLED STOCK WATER-TABLE WELL IN IDAHO GROUP, DIAM 6 IN, DEPTH 305 FT, CASED TO 300 FT. LSD ABOUT 2,867 FT NGVD OF 1929. MP NO. 1 TOP OF 6-IN THREAD PROTECTOR NORTHEAST SIDE, 1.20 FT ABOVE LSD (SINCE NOV. 28, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 249.83 FEET BELOW LAND SURFACE DATUM JAN 31, 1974.

LOWEST WATER LEVEL 258.70 FEET BELOW LAND SURFACE DATUM SEP 14, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	255.04	S	MAR 26, 1984	253.22	S	JUL 18, 1984	255.97	S	SEP 24, 1984	257.42	S
JAN 26, 1984	253.96	S	MAY 29	254.06	S						

WELL 01N 02E 15DCA1 SITE NUMBER 432504116115901

DRILLED UNUSED WATER-TABLE WELL IN IDAHO GROUP, DIAM 6 IN, REPORTED DEPTH 600 FT CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,970 FT NGVD OF 1929. MP NO. 3 TOP OF WEST 8X16-IN TIMBER EAST EDGE, 1.40 FT ABOVE LSD (SINCE MAY 14, 1970).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 361.43 FEET BELOW LAND SURFACE DATUM NOV 25, 1967.

LOWEST WATER LEVEL 366.85 FEET BELOW LAND SURFACE DATUM NOV 24, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	366.31	S	MAR 26, 1984	365.32	S	JUL 18, 1984	365.88	S	SEP 24, 1984	366.32	S
JAN 26, 1984	366.33	S	MAY 29	365.68	S						

WELL 01S 01E 06CCD1 SITE NUMBER 432127116231701

DRILLED UNUSED WATER-TABLE WELL IN IDAHO GROUP, DIAM 16 IN, DEPTH 597 FT, CASED TO 597 FT, PERFORATED 442-487 FT, 530-582 FT, 585-597 FT. LSD ABOUT 2,965 FT NGVD OF 1929. MAY 19, 1967, WELL HAD FILLED IN TO A DEPTH OF 560.3 FT. RECORDER INSTALLED MAY 22, 1967. RECORDER REMOVED SEPT. 27, 1971. MP NO. 1 TOP OF 16-IN CASING NORTHEAST SIDE, 0.90 FT ABOVE LSD (SINCE DEC. 28, 1966).

RECORDS AVAILABLE 1966, 1967 - 1971, 1972 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 433.30 FEET BELOW LAND SURFACE DATUM APR 24, 1976.

LOWEST WATER LEVEL 436.02 FEET BELOW LAND SURFACE DATUM DEC 28, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 26, 1984	434.20	S	SEP 24, 1984	434.73	S

WELL 01S 04E 30AAC1 SITE NUMBER 431839116010701

DRILLED UNUSED WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 12 IN, DEPTH 730 FT, CASED TO 550 FT. LSD ABOUT 3,130 FT NGVD OF 1929. MAY 24, 1967, WELL HAD FILLED IN TO A DEPTH OF 636.8 FT. RECORDER INSTALLED JUNE 5, 1967. RECORDER REMOVED NOV. 23, 1971. MP NO. 2 TOP OF 12-IN CASING EAST SIDE, 3.00 FT ABOVE LSD (SINCE JUNE 1, 1967).

RECORDS AVAILABLE 1967 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 482.36 FEET BELOW LAND SURFACE DATUM SEP 21, 1984.

LOWEST WATER LEVEL 487.98 FEET BELOW LAND SURFACE DATUM OCT 15, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 22, 1983	482.61	S	MAR 21, 1984	482.64	S	JUL 16, 1984	482.68	S	SEP 21, 1984	482.36	S
JAN 24, 1984	482.72	S	MAY 22	482.66	S						

WELL 02S 04E 09DDD2 SITE NUMBER 431534115583302

DRILLED UNUSED WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 6 IN, REPORTED DEPTH 600 FT, CASED TO 226 FT. LSD ABOUT 3,122 FT NGVD OF 1929. JAN. 9, 1969, WELL HAD FILLED IN TO A DEPTH OF 570 FT. MP NO. 1 TOP OF 6-IN CASING SOUTH SIDE, 0.80 FT ABOVE LSD (SINCE DEC. 21, 1960).

RECORDS AVAILABLE 1960, 1967 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 418.71 FEET BELOW LAND SURFACE DATUM SEP 19, 1977.

LOWEST WATER LEVEL 426.76 FEET BELOW LAND SURFACE DATUM SEPT 21, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 22, 1983	425.72	S	MAR 21, 1984	424.38	S	JUL 16, 1984	425.38	S	SEP 21, 1984	426.76	S
JAN 24, 1984	425.12	S	MAY 22	424.45	S						

ADAMS COUNTY

WELL 17N 01W 15AAC1 SITE NUMBER 444854116262301

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF TERTIARY AGE, DIAM 6 IN, REPORTED DEPTH 131 FT, CASED TO 109 FT. LSD ABOUT 3,115 FT NGVD OF 1929. MP NO. 1 TOP OF 6-IN CASING SOUTH SIDE, 1.50 FT ABOVE LSD (SINCE APR. 4, 1974).

RECORDS AVAILABLE 1974 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 93.07 FEET BELOW LAND SURFACE DATUM MAY 15, 1974.

LOWEST WATER LEVEL 100.33 FEET BELOW LAND SURFACE DATUM DEC 06, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	99.70	V	MAR 14, 1984	96.27	V	JUL 11, 1984	97.30	S	SEP 20, 1984	96.08	S
JAN 11, 1984	97.04	V	MAY 04	95.38	V						

WELL 16N 01W 03DDD2 SITE NUMBER 444447116255701

DRILLED UNUSED WATER-TABLE WELL IN SEMICONSOLIDATED GRAVEL OF QUATERNARY AGE, DIAM 12 IN, DEPTH 78.6 FT, CASED TO 7 FT, PERFORATED 2-6 FT. LSD ABOUT 2,985 FT NGVD OF 1929. MP NO. 1 TOP OF 12-IN CASING SOUTH SIDE, 0.80 FT ABOVE LSD (SINCE NOV. 30, 1961).

RECORDS AVAILABLE 1961, 1967 - 1973, 1974 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.25 FEET BELOW LAND SURFACE DATUM MAR 06, 1979.

LOWEST WATER LEVEL 17.07 FEET BELOW LAND SURFACE DATUM SEP 20, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	1.58	S	MAR 14, 1954	0.50	S	JUL 11, 1984	6.85	S	SEP 20, 1984	9.60	S
JAN 11, 1984	1.61	S	MAY 04	1.75	S						

WELL 16N 01W 22BAA1 SITE NUMBER 444256116263401

DRILLED IRRIGATION WATER-TABLE WELL IN COLUMBIA RIVER GROUP, DIAM 10 IN, REPORTED DEPTH 390 FT, CASED TO 28 FT. LSD ABOUT 2,930 FT NGVD OF 1929. MP NO. 1 HOLE IN 10-IN CASING COVER EAST SIDE, 0.40 FT ABOVE LSD (SINCE JULY 9, 1974).

RECORDS AVAILABLE 1974, 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 56.33 FEET BELOW LAND SURFACE DATUM APR 30, 1976.

LOWEST WATER LEVEL 71.34 FEET BELOW LAND SURFACE DATUM SEP 16, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	58.58	S	MAR 14, 1984	56.95	S	JUL 11, 1984	61.34	S	SEP 20, 1984	60.81	S
JAN 11, 1984	56.05	S	MAY 04	56.39	S						

WELL 15N 01W 22BAD1 SITE NUMBER 443736116263701

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF TERTIARY AGE, DIAM 8 IN, REPORTED DEPTH 175 FT, CASED TO 84 FT. LSD ABOUT 3,260 FT NGVD OF 1929. MP NO. 1 TOP OF 8-IN CASING NORTHEAST SIDE, 0.50 FT ABOVE LSD (SINCE APR. 17, 1975).

RECORDS AVAILABLE 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 112.61 FEET BELOW LAND SURFACE DATUM APR 17, 1975.

LOWEST WATER LEVEL 121.04 FEET BELOW LAND SURFACE DATUM JUL 17, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	119.10	S	MAR 14, 1984	117.91	S	JUL 11, 1984	118.21	S	SEP 20, 1984	118.15	S
JAN 11, 1984	118.52	S	MAY 04	117.96	S						

WELL 14N 01W 11CCC1 SITE NUMBER 443332116255501

DRILLED DOMESTIC WATER-TABLE WELL IN COLUMBIA RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 163 FT, CASED TO 24 FT. LSD ABOUT 3,000 FT NGVD OF 1929. MP NO. 1 HOLE IN 6-IN CASING SOUTH SIDE, 0.40 FT ABOVE LSD (SINCE MAR. 23, 1967).

RECORDS AVAILABLE 1967 - 1973, 1974 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.78 FEET BELOW LAND SURFACE DATUM MAR 14, 1984.

LOWEST WATER LEVEL 10.99 FEET BELOW LAND SURFACE DATUM SEP 20, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	6.54	S	MAR 14, 1984	2.78	S	SEP 20, 1984	4.51	S

BANNOCK COUNTY

WELL 05S 34E 20CBB2 SITE NUMBER 425816112305102

FORMERLY SITE ID NO. 425818112305202. DRILLED DOMESTIC WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 134.7 FT, CASED TO 134.7 FT, OPEN BOTTOM. LSD ABOUT 4,455 FT NGVD OF 1929. MP NO. 1 TOP OF VENT HOLE IN WELL SEAL WEST SIDE, 0.60 FT ABOVE LSD (SINCE SEPT. 15, 1964).

RECORDS AVAILABLE 1964 - 1971, 1973 - 1976, 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 50.01 FEET BELOW LAND SURFACE DATUM SEP 24, 1973.

LOWEST WATER LEVEL 54.60 FEET BELOW LAND SURFACE DATUM JUL 14, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 12, 1984	51.50	S	SEP 17, 1984	50.02	S

WELL 10S 36E 08DDD1 SITE NUMBER 423347112161001

DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 16 IN, REPORTED DEPTH 216 FT, CASED TO 216 FT, PERFORATED 115-120 FT, 128-132 FT, 138-140 FT, 170-212 FT. LSD ABOUT 5,020 FT NGVD OF 1929. MP NO. 2 HOLE IN CASING COVER SOUTHEAST SIDE, 1.50 FT ABOVE LSD (SINCE DEC. 14, 1972).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.

HIGHEST WATER LEVEL 62.78 FEET BELOW LAND SURFACE DATUM JUL 18, 1972.

LOWEST WATER LEVEL 73.31 FEET BELOW LAND SURFACE DATUM FEB 09, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 08, 1983	66.70	S	MAR 27, 1984	67.36	S	JUL 17, 1984	68.03	S	SEP 04, 1984	64.58	S
JAN 04, 1984	66.92	S	MAY 31	66.03	S						

WELL 11S 37E 16BDD1 SITE NUMBER 422821112085701

DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 16 IN, DEPTH 64.6 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 4,842 FT NGVD OF 1929. MP NO. 1 TOP OF CASING WEST SIDE, 0.60 FT ABOVE LSD (SINCE OCT. 24, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.09 FEET BELOW LAND SURFACE DATUM SEP 08, 1982.

LOWEST WATER LEVEL 14.82 FEET BELOW LAND SURFACE DATUM MAY 20, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 10, 1983	12.40	S	MAR 28, 1984	12.71	S	JUL 18, 1984	10.49	S	SEP 04, 1984	9.59	S
JAN 06, 1984	12.49	S	MAY 31	12.76	S						

BEST COPY AVAILABLE

WELL 13S 43E 35CC01 SITE NUMBER 421433111240401

FORMERLY SITE ID NO. 421433111235401. DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 8 IN, REPORTED DEPTH 300 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 5,930 FT NGVD OF 1929. MP NO. 2 TOP OF 8-IN CASING, 3.00 FT ABOVE LSD (SINCE JULY 18, 1984).

RECORDS AVAILABLE 1967 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 12.78 FEET BELOW LAND SURFACE DATUM AUG 13, 1968.

LOWEST WATER LEVEL 19.88 FEET BELOW LAND SURFACE DATUM MAR 08, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 09, 1983	18.24	S	MAR 28, 1984	17.43	S	JUL 18, 1984	18.03	S	SEP 05, 1984	18.77	S
JAN 05, 1984	18.48	S									

WELL 13S 44E 26BA01 SITE NUMBER 421602111164001

FORMERLY SITE ID NO. 421606111164201. DRILLED IRRIGATION WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 14 IN, REPORTED DEPTH 170 FT, CASED TO 170 FT, PERFORATED 20-170 FT. LSD ABOUT 5,970 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE IN PUMPBASE SOUTHEAST SIDE, 0.40 FT ABOVE LSD (SINCE SEPT. 20, 1967).

RECORDS AVAILABLE 1967 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 13.48 FEET BELOW LAND SURFACE DATUM JUL 12, 1978.

LOWEST WATER LEVEL 24.45 FEET BELOW LAND SURFACE DATUM APR 08, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 09, 1983	19.60	S	MAR 28, 1984	23.45	S	JUL 18, 1984	15.12	P S	SEP 05, 1984	15.42	S
JAN 05, 1984	21.63	S	MAY 30	19.10	S						

BINGHAM COUNTY

WELL 03N 32E 130CA1 SITE NUMBER 433509112384801

DRILLED INDUSTRIAL WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 10 IN , DEPTH 790 FT, CASED TO 790 FT, PERFORATED 680-730 FT, 737-787 FT, GRAVEL PACKED 0-787 FT, CONCRETE SEAL 787-790 FT. LSD 5,165.51 FT NGVD OF 1929, BASED ON ELEVATION OF 1947 (PRELIMINARY). MP NO. 4 TOP OF 10-IN CASING NORTHEAST SIDE, 1.30 FT ABOVE LSD (SINCE MAY 28, 1980).

RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 672.06 FEET BELOW LAND SURFACE DATUM MAR 14, 1973.

LOWEST WATER LEVEL 680.32 FEET BELOW LAND SURFACE DATUM AUG 20, 1951.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 28, 1983	677.30	S	JAN 23, 1984	675.49	S	MAY 01, 1984	675.13	S	JUL 18, 1984	675.72	S
DEC 03	676.00	S	FEB 28	675.12	S	28	675.42	S	AUG 30	675.86	S
31	675.84	S	MAR 26	674.86	S	JUN 25	675.50	S	SEP 28	676.01	S

WELL 02N 31E 350CC1 SITE NUMBER 432700112470801

FORMERLY SITE ID NO. 432701112471101. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 636 FT, 6-IN CASING 0-433 FT, 5-IN CASING 423-636 FT, PERFORATED 600-630 FT. LSD 5,023.68 FT NGVD OF 1929, BASED ON ELEVATION OF 1947 (PRELIMINARY). RECORDER INSTALLED JAN. 3, 1950. RECORDER REMOVED MAR. 25, 1974. MP NO. 1 TOP OF 6-IN CASING NORTH SIDE, 1.49 FT ABOVE LSD (SINCE DEC. 5, 1949).

RECORDS AVAILABLE 1949, 1950 - 1956, 1957 - 1964, 1965 - 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 582.10 FEET BELOW LAND SURFACE DATUM NOV 12, 1951.

LOWEST WATER LEVEL 588.20 FEET BELOW LAND SURFACE DATUM AUG 21, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 20, 1983	584.73	S	JAN 23, 1984	584.08	S	APR 26, 1984	583.62	S	JUL 23, 1984	583.13	S
NOV 21	584.26	S	FEB 22	583.98	S	MAY 23	583.50	S	AUG 27	582.80	S
DEC 27	584.05	S	MAR 22	584.07	S	JUN 21	583.15	S	SEP 12	582.49	S

WELL 01N 30E 10BBA1 SITE NUMBER 432618112555301

FORMERLY SITE ID NO. 432620112561301, WELL NO. 01N 30E 10BBB1. DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 563.0 FT, CASING DEPTH NOT AVAILABLE. LSD 4,979.39 FT NGVD OF 1929. ORIGINAL DEPTH 569 FT FROM WSP 775. MP NO. 3 TOP OF PUMP COLUMN LINER NORTHEAST SIDE, 1.81 FT ABOVE LSD (SINCE APR. 6, 1950).

RECORDS AVAILABLE 1922, 1949 - 1951, 1952 TO CURRENT YEAR.

HIGHEST WATER LEVEL 527.36 FEET BELOW LAND SURFACE DATUM APR 20, 1950.

LOWEST WATER LEVEL 553.94 FEET BELOW LAND SURFACE DATUM AUG 26, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 05, 1983	549.27	S	JAN 31, 1984	547.40	S	APR 13, 1984	547.76	S	JUL 20, 1984	545.48	S
DEC 02	548.03	S	FEB 23	547.89	S	MAY 29	546.79	S	AUG 27	545.76	S
30	547.38	S	MAR 21	547.84	S	JUN 21	546.00	S	SEP 24	545.77	S

WELL 01S 30E 15BCA1 SITE NUMBER 432019112563201

FORMERLY SITE ID NO. 432019112563101. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 751.5 FT, 6-IN CASING 0-570 FT, 5-IN CASING 560-752 FT, LEAD SEAL AT 550 FT. LSD 5,133.08 FT NGVD OF 1929, BASED ON ELEVATIONS OF 1969 (PRELIMINARY). RECORDER INSTALLED DEC. 14, 1951. RECORDER REMOVED AUG. 18, 1960. MP NO. 2 TOP OF 6 1/4-IN THREADED CASING, 1.36 FT ABOVE LSD (SINCE JUNE 27, 1951).

RECORDS AVAILABLE 1951 - 1960, 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 709.80 FEET BELOW LAND SURFACE DATUM OCT 24, 1951.

LOWEST WATER LEVEL 715.97 FEET BELOW LAND SURFACE DATUM JUL 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 26, 1983	712.31	S	FEB 23, 1984	712.05	S	MAY 29, 1984	711.53	S	AUG 27, 1984	710.67	S
DEC 29	712.03	S	MAR 21	712.10	S	JUN 21	711.05	S	SEP 24	710.35	S
JAN 31, 1984	711.89	S	APR 16	711.89	S	JUL 20	712.08	S			

WELL 01S 35E 11CAD1 SITE NUMBER 432042112193201

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 IN, REPORTED DEPTH 297 FT, CASED TO 15 FT. LSD ABOUT 4,662 FT NGVD OF 1929. MP NO. 1 HOLE IN PUMPBASE EAST SIDE, 0.30 FT ABOVE LSD (SINCE JUNE 20, 1957).

RECORDS AVAILABLE 1957, 1966 - 1971, 1972 - 1977, 1978 - 1981, 1982 TO CURRENT YEAR.

HIGHEST WATER LEVEL 169.95 FEET BELOW LAND SURFACE DATUM SEP 25, 1972.

LOWEST WATER LEVEL 175.88 FEET BELOW LAND SURFACE DATUM MAY 27, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 27, 1984	172.53	S	SEP 20, 1984		P

WELL 01S 37E 36CDA1 SITE NUMBER 431705112041301

DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 16 IN, DEPTH 414.9 FT, CASED TO 350 FT. LSD ABOUT 4,780 FT NGVD OF 1929. MP NO. 1 TOP OF 16-IN CASING SOUTHWEST SIDE FLUSH WITH CONCRETE PLATFORM AT LSD (SINCE MAR. 28, 1958).

RECORDS AVAILABLE 1958 - 1968, 1969 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 230.09 FEET BELOW LAND SURFACE DATUM SEP 25, 1972.

LOWEST WATER LEVEL 262.68 FEET BELOW LAND SURFACE DATUM SEP 17, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 27, 1984	246.98	S	SEP 20, 1984	238.69	S

BINGHAM COUNTY--CONTINUED

WELL 02S 32E 23BBB1 SITE NUMBER 431422112411901

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 196.0 FT, CASED 0-172 FT. LSD 4,585.32 FT NGVD OF 1929. NOV. 2, 1971, WELL HAD FILLED IN TO A DEPTH OF 182.2 FT. RECORDER INSTALLED APR. 7, 1960. RECORDER REMOVED SEPT. 22, 1960. MP NO. 3 TOP OF CASING WEST SIDE, 2.00 FT ABOVE LSD (SINCE APR. 7, 1960).

RECORDS AVAILABLE 1951 - 1953, 1954 - 1957, 1958 - 1959, 1960, 1961 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 162.75 FEET BELOW LAND SURFACE DATUM OCT 19, 1951.

LOWEST WATER LEVEL 169.88 FEET BELOW LAND SURFACE DATUM JUL 17, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	165.72	S	MAR 27, 1984	166.07	S	JUL 17, 1984	165.70	S	SEP 19, 1984	164.10	S
JAN 09, 1984	166.02	S	MAY 22	165.67	S						

WELL 02S 34E 33BBA1 SITE NUMBER 431242112292801

DRILLED STOCK WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 40 FT, CASED TO 5 FT. LSD 4,456.89 FT NGVD OF 1929. MP NO. 2 TOP OF 6-IN CASING NORTH SIDE, 1.40 FT ABOVE LSD (SINCE JAN. 18, 1982).

RECORDS AVAILABLE 1952 - 1968, 1969 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 23.80 FEET BELOW LAND SURFACE DATUM AUG 30, 1952.

LOWEST WATER LEVEL 33.55 FEET BELOW LAND SURFACE DATUM MAR 18, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	29.83	S	MAR 27, 1984	29.87	S	JUL 18, 1984	24.87	S	SEP 20, 1984	24.44	S
JAN 09, 1984	30.50	S	MAY 22	28.83	S						

WELL 02S 35E 11DDD1 SITE NUMBER 431517112190101

DRILLED OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE, DIAM 6 IN, REPORTED DEPTH 97 FT, CASED TO 113 FT, PERFORATED 88-93 FT, GRAVEL FILL 110-113 FT, CONCRETE SEAL 97-110 FT. LSD 4,518.38 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 1 TOP OF 6-IN CASING SOUTHWEST SIDE, 2.58 FT ABOVE LSD (SINCE AUG. 22, 1979).

RECORDS AVAILABLE 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 21.51 FEET BELOW LAND SURFACE DATUM JUL 22, 1982.

LOWEST WATER LEVEL 71.54 FEET BELOW LAND SURFACE DATUM APR 14, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	29.19	S	JAN 09, 1984	39.15	S	APR 20, 1984	41.06	S	JUL 18, 1984	22.07	S
NOV 18	35.59	S	FEB 14	40.52	S	MAY 22	32.34	S	AUG 22	22.55	S
DEC 09	37.27	S	MAR 27	42.66	S	JUN 19	25.57	S	SEP 20	26.57	S

WELL 02S 35E 110002 SITE NUMBER 431517112190102

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 376 FT, 3/4-IN PIEZOMETER TUBE 0-129 FT, PERFORATED 121.5-126.5 FT, GRAVEL FILL 110-376 FT, CONCRETE SEAL 97-110 FT, 376-390 FT. LSD 4,518.38 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 2 TOP OF 3/4-IN PIPE SOUTHWEST SIDE, 2.13 FT ABOVE LSD (SINCE MAR. 14, 1980).

RECORDS AVAILABLE 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 62.02 FEET BELOW LAND SURFACE DATUM AUG 22, 1984.

LOWEST WATER LEVEL 72.34 FEET BELOW LAND SURFACE DATUM APR 14, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	63.77	S	JAN 09, 1984	67.11	S	APR 20, 1984	67.29	S	JUL 18, 1984	62.83	S
NOV 18	65.32	S	FEB 14	67.52	S	MAY 22	65.60	S	AUG 22	62.02	S
DEC 09	66.04	S	MAR 27	68.03	S	JUN 19	63.27	S	SEP 20	62.05	S

WELL 02S 35E 110004 SITE NUMBER 431517112190104

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 682 FT, 3/4-IN PIEZOMETER TUBE 0-682 FT, PERFORATED 674.5-679.5 FT, GRAVEL FILL 630-682 FT, CONCRETE SEAL 570-630 FT. LSD 4,518.38 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 2 TOP OF 3/4-IN PIPE SOUTHWEST SIDE, 1.52 FT ABOVE LSD (SINCE MAR. 14, 1980).

RECORDS AVAILABLE 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 60.86 FEET BELOW LAND SURFACE DATUM SEP 20, 1984.

LOWEST WATER LEVEL 71.38 FEET BELOW LAND SURFACE DATUM APR 14, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	62.85	S	JAN 09, 1984	65.98	S	APR 20, 1984	66.24	S	JUL 18, 1984	61.66	S
NOV 16	64.27	S	FEB 14	66.48	S	MAY 22	64.51	S	AUG 22	61.01	S
DEC 09	64.93	S	MAR 27	66.91	S	JUN 19	62.38	S	SEP 20	60.36	S

WELL 02S 36E 36C001 SITE NUMBER 431148112111801

DRILLED STOCK WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 6 IN, DEPTH 98.0 FT, CASED TO 97 FT. LSD ABOUT 4,636 FT NGVD OF 1929. MP NO. 1 TOP OF CASING SOUTH SIDE, 2.00 FT ABOVE LSD (SINCE APR. 7, 1955).

RECORDS AVAILABLE 1955, 1955 - 1968, 1969 - 1976, 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 74.57 FEET BELOW LAND SURFACE DATUM OCT 25, 1959.

LOWEST WATER LEVEL 77.50 FEET BELOW LAND SURFACE DATUM AUG 06, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 27, 1984	76.31	S	SEP 20, 1984	75.70	S

WELL 03S 33E 14BBA1 SITE NUMBER 431006112340901

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 44 FT, CASED TO 3 FT. LSD 4,461.55 FT NGVD OF 1929. MP NO. 3 TOP OF HOLE IN WELL SEAL WEST SIDE, 2.20 FT ABOVE LSD (SINCE SEPT. 25, 1981).

RECORDS AVAILABLE 1952 - 1968, 1969 - 1976, 1977 - 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 34.89 FEET BELOW LAND SURFACE DATUM AUG 30, 1952.

LOWEST WATER LEVEL 44.13 FEET BELOW LAND SURFACE DATUM APR 27, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 02, 1984	38.74	S	SEP 20, 1984	36.39	S

WELL 03S 33E 17AAD1 SITE NUMBER 430955112381601

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 IN, DEPTH 185 FT, CASING DEPTH NOT AVAILABLE. LSD 4,512.75 FT NGVD OF 1929. MP NO. 2 TOP OF 16-IN CASING NORTH SIDE, 0.80 FT ABOVE LSD (SINCE SEPT. 17, 1976).

RECORDS AVAILABLE 1951 - 1956, 1958 - 1969, 1972, 1974 - 1976, 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 89.57 FEET BELOW LAND SURFACE DATUM OCT 02, 1952.

LOWEST WATER LEVEL 96.23 FEET BELOW LAND SURFACE DATUM MAR 19, 1951.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 02, 1984	93.07	S	SEP 20, 1984	91.08	S

WELL 03S 33E 25CCC1 SITE NUMBER 430729112331201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 183.4 FT, CASED TO 185 FT, OPEN BOTTOM, GRAVEL FILL 183.4-504 FT, CONCRETE SEAL 504-529 FT. LSD 4,450.43 FT NGVD OF 1929. MP NO. 1 TOP OF 6-IN CASING NORTH SIDE, 1.50 FT ABOVE LSD (SINCE AUG. 22, 1979).

RECORDS AVAILABLE 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 33.34 FEET BELOW LAND SURFACE DATUM SEP 20, 1984.

LOWEST WATER LEVEL 37.75 FEET BELOW LAND SURFACE DATUM APR 14, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	34.44	S	JAN 09, 1984	35.32	S	APR 20, 1984	34.87	S	JUL 18, 1984	34.66	S
NOV 18	34.87	S	FEB 14	35.39	S	MAY 22	34.45	S	AUG 22	33.53	S
DEC 09	35.04	S	MAR 27	34.83	S	JUN 20	34.07	S	SEP 20	33.34	S

WELL 03S 33E 25CCC2 SITE NUMBER 430729112331202

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 637 FT, 3/4-IN PIEZOMETER TUBE 0-583 FT, PERFORATED 546-551 FT, GRAVEL FILL 529-553 FT, 583-637 FT, CAVITY 553-583 FT, CONCRETE SEAL 504-529 FT, METAL SEAL AT 553 FT. LSD 4,450.43 FT NGVD OF 1929. MP NO. 2 TOP OF 3/4-IN PIPE NORTH SIDE, 1.27 FT ABOVE LSD (SINCE MAR. 20, 1980).

RECORDS AVAILABLE 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 32.63 FEET BELOW LAND SURFACE DATUM SEP 20, 1984.

LOWEST WATER LEVEL 37.77 FEET BELOW LAND SURFACE DATUM JUL 22, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	33.88	S	JAN 09, 1984	34.41	S	APR 20, 1984	34.25	S	JUL 18, 1984	34.20	S
NOV 15	34.11	S	FEB 14	34.60	S	MAY 22	33.86	S	AUG 22	32.95	S
DEC 09	34.18	S	MAR 27	34.45	S	JUN 20	33.51	S	SEP 20	32.63	S

WELL 03S 34E 02BCC3 SITE NUMBER 431126112271503

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 707 FT, 3/4-IN PIEZOMETER TUBE 0-676 FT, PERFORATED 668.5-673.5 FT, GRAVEL FILL 565-707 FT, CONCRETE SEAL 547-565 FT. LSD 4,446 FT NGVD OF 1929. MP NO. 2 TOP OF 3/4-IN PIPE NORTH SIDE, 0.92 FT ABOVE LSD (SINCE MAR. 29, 1980).

RECORDS AVAILABLE 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.52 FEET BELOW LAND SURFACE DATUM SEP 20, 1984.

LOWEST WATER LEVEL 24.76 FEET BELOW LAND SURFACE DATUM APR 14, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	19.71	S	JAN 09, 1984	21.08	S	APR 20, 1984	21.05	S	JUL 18, 1984	18.73	S
NOV 18	20.66	S	FEB 14	21.54	S	MAY 22	19.76	S	AUG 22	17.88	S
DEC 09	20.98	S	APR 02	20.24	S	JUN 20	18.53	S	SEP 20	17.52	S

WELL 03S 34E 22DAB1 SITE NUMBER 430843112272701

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 85 FT, CASED TO 81.5 FT, PERFORATED 60-65 FT, CONCRETE SEAL 85-93 FT. LSD 4,439.61 FT NGVD OF 1929. MP NO. 1 TOP OF 6-IN CASING SOUTH SIDE, 2.30 FT ABOVE LSD (SINCE APR. 14, 1981).

RECORDS AVAILABLE 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 11.07 FEET BELOW LAND SURFACE DATUM JUN 20, 1984.

LOWEST WATER LEVEL 16.71 FEET BELOW LAND SURFACE DATUM APR 14, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	12.67	S	JAN 09, 1984	13.09	S	APR 20, 1984	13.27	S	JUL 18, 1984	12.06	S
NOV 17	13.30	S	FEB 14	14.20	S	MAY 22	11.97	S	AUG 22	11.44	S
DEC 09	13.62	S	MAR 27	13.84	S	JUN 20	11.07	S	SEP 20	11.40	S

BINGHAM COUNTY--CONTINUED

WELL 03S 34E 22DAB2 SITE NUMBER 430843112272702

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 563.5 FT, 3/4-IN PIEZOMETER TUBE 0-462.7 FT, PERFORATED 455.2-460.2 FT, GRAVEL FILL 93-412 FT, 415.4-568.5 FT, CONCRETE SEAL 412-415.4 FT. LSD 4,639.41 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE SOUTHEAST SIDE, 2.13 FT ABOVE LSD (SINCE APR. 14, 1981).

RECORDS AVAILABLE 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 13.07 FEET BELOW LAND SURFACE DATUM SEP 20, 1984.

LOWEST WATER LEVEL 18.28 FEET BELOW LAND SURFACE DATUM APR 14, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	14.45	S	JAN 09, 1984	15.20	S	APR 20, 1984	15.21	S	JUL 18, 1984	14.21	S
NOV 17	14.90	S	FEB 14	15.75	S	MAY 22	14.46	S	AUG 22	13.19	S
DEC 09	15.17	S	MAR 27	15.53	S	JUN 20	13.67	S	SEP 20	13.07	S

WELL 04S 31E 20BBS1 SITE NUMBER 430402112520301

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, REPORTED DEPTH 201 FT, CASED TO 5 FT. LSD 4,523.34 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 3 TOP OF 3/4-IN HOLE IN PUMPBASE NORTH SIDE, 0.29 FT ABOVE LSD (SINCE JAN. 19, 1978).

RECORDS AVAILABLE 1953, 1962 - 1968, 1969 - 1971, 1972 - 1976, 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 115.09 FEET BELOW LAND SURFACE DATUM OCT 02, 1953.

LOWEST WATER LEVEL 122.04 FEET BELOW LAND SURFACE DATUM AUG 08, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 02, 1984	117.95	S	SEP 20, 1984		P

WELL 04S 31E 36ABA1 SITE NUMBER 430216112464601

DRIVEN OBSERVATION WATER-TABLE WELL IN AMERICAN FALLS LAKE BEDS, DIAM 1 1/4 IN, DEPTH 17.1 FT, CASED TO 17 FT, WELL POINT 15.9-18.4 FT. LSD 4,401.78 FT NGVD OF 1929. MP NO. 1 TOP OF 1 1/4-IN CASING NORTH SIDE, 1.50 FT ABOVE LSD (SINCE JULY 26, 1959).

RECORDS AVAILABLE 1959 - 1965, 1969 - 1976, 1977, 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.26 FEET ABOVE LAND SURFACE DATUM SEP 19, 1973.

LOWEST WATER LEVEL 7.65 FEET BELOW LAND SURFACE DATUM MAR 19, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 02, 1984	5.70	S	SEP 19, 1984	3.61	S

WELL 04S 32E 01CBA1 SITE NUMBER 430607112400501

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 90 FT, CASED TO 68 FT, CONCRETE SEAL 90-105 FT. LSD ABOUT 4,430 FT NGVD OF 1929. MP NO. 1 TOP OF 8-IN CASING NORTHWEST SIDE, 2.50 FT ABOVE LSD (SINCE JUNE 23, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 38.63 FEET BELOW LAND SURFACE DATUM SEP 19, 1984.

LOWEST WATER LEVEL 47.37 FEET BELOW LAND SURFACE DATUM APR 14, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	39.29	S	JAN 09, 1984	45.45	S	APR 20, 1984	44.75	S	JUL 18, 1984	39.88	S
NOV 18	44.12	S	FEB 14	45.44	S	MAY 22	41.18	S	AUG 27	38.83	S
DEC 09	44.74	S	MAR 27	44.49	S	JUN 20	40.43	S	SEP 19	38.63	S

WELL 04S 32E 01CBA2 SITE NUMBER 430607112400502

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 131 FT, 3/4-IN PIEZOMETER TUBE 0-122 FT, PERFORATED 114.5-119.5 FT, GRAVEL FILL 105-131 FT, CONCRETE SEAL 90-105 FT, 131-264 FT. LSD ABOUT 4,450 FT NGVD OF 1929. JUNE 23, 1980, WELL HAD FILLED IN TO A DEPTH OF 107.0 FT. MP NO. 1 TOP OF 3/4-IN PIPE NORTHWEST SIDE, 1.10 FT ABOVE LSD (SINCE JUNE 23, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 39.40 FEET BELOW LAND SURFACE DATUM SEP 19, 1984.

LOWEST WATER LEVEL 47.54 FEET BELOW LAND SURFACE DATUM APR 14, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	40.63	S	JAN 09, 1984	45.30	S	APR 20, 1984	44.97	S	JUL 18, 1984	40.65	S
NOV 18	43.94	S	FEB 14	45.70	S	MAY 22	42.84	S	AUG 22	39.58	S
DEC 09	44.78	S	MAR 27	45.40	S	JUN 20	41.25	S	SEP 19	39.40	S

WELL 04S 32E 01CBA3 SITE NUMBER 430607112400503

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 295 FT, 3/4-IN PIEZOMETER TUBE 0-273 FT, PERFORATED 265.5-270.5 FT, GRAVEL FILL 264-295 FT, CONCRETE SEAL 131-264 FT, 295-310 FT. LSD ABOUT 4,450 FT NGVD OF 1929. JUNE 23, 1980, WELL HAD FILLED IN TO A DEPTH OF 241.7 FT. MP NO. 1 TOP OF 3/4-IN PIPE NORTHWEST SIDE, 1.21 FT ABOVE LSD (SINCE JUNE 23, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 38.93 FEET BELOW LAND SURFACE DATUM SEP 19, 1984.

LOWEST WATER LEVEL 44.96 FEET BELOW LAND SURFACE DATUM FEB 18, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	40.27	S	JAN 09, 1984	39.90	S	APR 20, 1984	39.79	S	JUL 18, 1984	39.37	S
NOV 18	40.02	S	FEB 14	39.87	S	MAY 22	39.71	S	AUG 22	39.19	S
DEC 09	39.94	S	MAR 27	39.87	S	JUN 20	39.51	S	SEP 19	38.93	S

WELL 04S 32E 01CBA4 SITE NUMBER 430607112400504

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 433 FT, 3/4-IN PIEZOMETER TUBE 0-357 FT, PERFORATED 349.5-354.5 FT, GRAVEL FILL 310-433 FT, CONCRETE SEAL 295-310 FT. LSD 4,450 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE NORTHWEST SIDE, 0.99 FT ABOVE LSD (SINCE DEC. 17, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 35.53 FEET BELOW LAND SURFACE DATUM SEP 19, 1984.

LOWEST WATER LEVEL 40.87 FEET BELOW LAND SURFACE DATUM JUL 23, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	36.44	S	JAN 09, 1984	36.97	S	APR 20, 1984	36.46	S	JUL 18, 1984	37.57	S
NOV 18	36.71	S	FEB 14	36.91	S	MAY 22	36.34	S	AUG 22	35.59	S
DEC 09	36.77	S	MAR 27	36.69	S	JUN 20	36.19	S	SEP 19	35.53	S

WELL 04S 32E 13CBB1 SITE NUMBER 430425112401101

FORMERLY SITE ID NO. 420425112401101. DRILLED DOMESTIC AND STOCK WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 60 FT, CASED TO 60 FT. LSD 4,410.86 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 2 TOP OF 1/2-IN HOLE IN WELL SEAL NORTHWEST SIDE, 5.19 FT BELOW LSD (SINCE JAN. 19, 1978).

RECORDS AVAILABLE 1961 - 1962, 1963 - 1969, 1972, 1974 - 1976, 1977, 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 11.49 FEET BELOW LAND SURFACE DATUM AUG 11, 1965.

LOWEST WATER LEVEL 15.67 FEET BELOW LAND SURFACE DATUM APR 28, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 27, 1984	15.94	S	SEP 20, 1984	14.22	S

WELL 04S 33E 03CBB2 SITE NUMBER 430610112353301

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 53.3 FT, CASED TO 12 FT. LSD 4,447.94 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED JULY 23, 1959. RECORDER REMOVED MAY 25, 1969. DIGITAL RECORDER INSTALLED JAN. 12, 1978. MP NO. 1 TOP OF CASING SOUTH SIDE, 1.10 FT ABOVE LSD (SINCE MAR. 25, 1959).

RECORDS AVAILABLE 1959 - 1969, 1970 - 1971, 1972 - 1973, 1974 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 31.37 FEET BELOW LAND SURFACE DATUM AUG 19, 1969.

LOWEST WATER LEVEL 40.27 FEET BELOW LAND SURFACE DATUM JAN 19, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	35.44	JAN 05, 1984	38.10	APR 10, 1984	36.38	JUL 15, 1984	36.85
10	35.41	10	38.04	15	36.93	20	36.40
14	35.32	15	37.89	20	36.68	25	35.87
15	35.35	20	37.91	25	36.88	31	35.20
20	35.49	25	37.95	30	37.16	AUG 05	34.80
25	35.82	31	38.07	MAY 05	37.08	10	34.73
31	36.08	FEB 05	38.07	10	36.99	15	34.67
NOV 05	36.37	10	38.06	15	36.63	20	34.47
10	36.69	15	37.99	20	36.45	25	34.40
15	36.90	20	37.99	25	36.33	31	34.41
20	36.89	25	38.01	31	36.59	SEP 05	34.46
25	37.04	29	38.01	JUN 05	36.24	10	34.38
30	37.35	MAR 05	38.19	10	36.06	11	34.30
DEC 05	37.40	10	38.31	15	35.49	12	34.30
10	37.50	15	38.16	20	35.85	15	34.46
15	37.65	20	37.95	25	36.08	20	34.48
20	37.69	25	36.94	30	36.23	25	34.46
25	37.85	31	36.27	JUL 05	36.57	30	34.58
31	37.94	APR 05	36.27	10	36.68		

WELL 04S 33E 20CBB1 SITE NUMBER 430333112375801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 65 FT, CASED TO 5.2 FT. LSD 4,419 FT NGVD OF 1929. JUNE 19, 1981, WELL HAD FILLED IN TO A DEPTH OF 61.8 FT. MP NO. 1 TOP OF 6-IN CASING NORTH SIDE, 2.00 FT ABOVE LSD (SINCE MAY 28, 1981).

RECORDS AVAILABLE 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 28.15 FEET BELOW LAND SURFACE DATUM JUN 15, 1983.

LOWEST WATER LEVEL 32.43 FEET BELOW LAND SURFACE DATUM JUL 23, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	28.88	S	JAN 09, 1984	30.75	S	APR 20, 1984	29.60	S	JUL 18, 1984	31.02	S
NOV 17	29.87	S	FEB 14	30.83	S	MAY 22	29.30	S	AUG 22	28.56	S
DEC 09	30.38	S	MAR 27	28.66	S	JUN 20	29.10	S	SEP 19	28.79	S

WELL 04S 33E 20CBB2 SITE NUMBER 430333112375802

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 108 FT, CASED TO 108 FT, PERFORATED 64-68 FT. LSD 4,420 FT NGVD OF 1929. MP NO. 1 TOP OF 1 1/4-IN PIPE NORTH SIDE, 0.74 FT ABOVE LSD (SINCE MAY 20, 1981).

RECORDS AVAILABLE 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 18.24 FEET BELOW LAND SURFACE DATUM JUN 20, 1984.

LOWEST WATER LEVEL 23.65 FEET BELOW LAND SURFACE DATUM JAN 18, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	18.68	S	JAN 09, 1984	20.33	S	APR 20, 1984	18.99	S	JUL 18, 1984	18.89	S
NOV 17	19.00	S	FEB 14	20.29	S	MAY 22	18.55	S	AUG 22	18.49	S
DEC 09	19.39	S	MAR 27	18.85	S	JUN 20	18.24	S	SEP 20	18.26	S

WELL 04S 33E 20CBB3 SITE NUMBER 430333112375803

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 405 FT, CASED TO 385 FT, OPEN BOTTOM, GRAVEL FILL 385-405 FT, CONCRETE SEAL 405-468 FT. LSD 4,420 FT NGVD OF 1929. JUNE 19, 1981, WELL HAD FILLED IN TO A DEPTH OF 365.7 FT. MP NO. 1 TOP OF 4-IN CASING NORTH SIDE, 0.37 FT ABOVE LSD (SINCE MAY 20, 1981).

RECORDS AVAILABLE 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 14.93 FEET BELOW LAND SURFACE DATUM MAY 11, 1982.

LOWEST WATER LEVEL 22.69 FEET BELOW LAND SURFACE DATUM AUG 16, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	15.68	S	JAN 09, 1984	15.29	S	APR 20, 1984	15.35	S	JUL 18, 1984	15.31	S
NOV 17	15.37	S	FEB 14	15.50	S	MAY 22	15.40	S	AUG 22	15.13	S
DEC 09	15.29	S	MAR 27	15.62	S	JUN 20	15.26	S	SEP 20	15.04	S

WELL 04S 33E 20CBB4 SITE NUMBER 430333112373804

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 738.2 FT, 3/4-IN PIEZOMETER TUBE 0-741 FT, PERFORATED 668-673 FT, 705-710 FT, GRAVEL FILL 468-741 FT, CONCRETE SEAL 405-468 FT. LSD 4,420 FT NGVD OF 1929. MP NO. 1 TOP OF 1 1/4-IN PIPE NORTH SIDE, 0.47 FT ABOVE LSD (SINCE MAY 20, 1981).

RECORDS AVAILABLE 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.70 FEET BELOW LAND SURFACE DATUM SEP 20, 1984.

LOWEST WATER LEVEL 8.45 FEET BELOW LAND SURFACE DATUM JUL 23, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1983	4.86	S	JAN 09, 1984	5.33	S	APR 20, 1984	5.09	S	JUL 18, 1984	5.37	S
NOV 17	4.92	S	FEB 14	5.49	S	MAY 22	4.82	S	AUG 22	3.96	S
DEC 09	5.08	S	MAR 27	5.31	S	JUN 20	4.57	S	SEP 20	3.70	S

WELL 03S 31E 19DDC1 SITE NUMBER 425803112521301

DRILLED DOMESTIC AND STOCK WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 61.3 FT, CASED TO 70 FT, OPEN BOTTOM. LSD 4,427.04 FT NGVD OF 1929. ORIGINAL REPORTED DEPTH 70 FT. MEASUREMENTS PRIOR TO 1952 MADE BY ABERDEEN-SPRINGFIELD CANAL CO. MP NO. 4 TOP OF 3/8-IN COUPLING IN WOODEN COVER NORTH SIDE, 0.30 FT ABOVE LSD (SINCE AUG. 22, 1964).

RECORDS AVAILABLE 1944 - 1947, 1952 - 1968, 1969 - 1976, 1977 - 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 37.40 FEET BELOW LAND SURFACE DATUM SEP 09, 1947.

LOWEST WATER LEVEL 46.68 FEET BELOW LAND SURFACE DATUM SEP 25, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 02, 1984	41.81	S	SEP 20, 1984	42.37	S

WELL 03S 31E 27ABA1 SITE NUMBER 425757112485201

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 TO 12 IN, DEPTH 48.9 FT, CASED TO 16 FT. LSD 4,399.83 FT NGVD OF 1929. MEASUREMENTS PRIOR TO 1952 MADE BY ABERDEEN-SPRINGFIELD CANAL CO. RECORDER INSTALLED JULY 16, 1952. RECORDER CHANGED TO DIGITAL MAY 30, 1973. MP NO. 2 TOP INSIDE EDGE OF 16-IN CASING NORTHEAST SIDE, 0.50 FT ABOVE LSD (SINCE MAY 24, 1952).

RECORDS AVAILABLE 1945 - 1947, 1948 - 1949, 1952 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.97 FEET BELOW LAND SURFACE DATUM AUG 16, 1968.

LOWEST WATER LEVEL 25.84 FEET BELOW LAND SURFACE DATUM APR 28, 1961.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	16.16		DEC 15, 1983	19.80		MAY 31, 1984	19.26	JUL 31, 1984	15.74
10	16.38		20	19.83		JUN 05	18.82	AUG 05	15.93
15	16.47		25	19.99		10	18.44	10	16.25
20	16.67		31	20.41		15	18.07	15	16.41
25	17.12		JAN 05, 1984	20.51		20	17.77	20	16.47
31	17.29		11	20.68	S	25	17.73	25	16.15
NOV 05	17.65		14	20.72		30	17.53	31	16.03
18	18.47	S	15	20.73		JUL 05	16.89	SEP 05	16.19
20	18.32		APR 02	19.27	S	10	16.59	10	16.46
25	18.74		05	19.06		15	16.53	15	16.74
30	19.15		10	18.96		20	16.34	20	16.72
DEC 05	19.49		MAY 22	19.75	S	25	16.06	25	16.99
10	19.62		25	19.60		28	15.68	30	16.78

WELL 06S 31E 16BAA1 SITE NUMBER 425427112503801

DRILLED IRRIGATION WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 12 IN, DEPTH 134 FT, CASING DEPTH NOT AVAILABLE. LSD 4,392.21 FT NGVD OF 1929. MEASUREMENTS PRIOR TO 1952 MADE BY ABERDEEN-SPRINGFIELD CANAL CO. RECORDER INSTALLED OCT. 6, 1952. RECORDER REMOVED MAY 18, 1955. MP NO. 3 TOP OF 7/8-IN HOLE IN NORTHWEST CORNER OF STEEL PUMPBASE, 0.25 FT ABOVE LSD (SINCE JUNE 24, 1958).

RECORDS AVAILABLE 1944 - 1949, 1952 - 1955, 1956 - 1968, 1969 - 1972, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.90 FEET BELOW LAND SURFACE DATUM AUG 28, 1944.

LOWEST WATER LEVEL 17.46 FEET BELOW LAND SURFACE DATUM MAR 09, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 02, 1984	14.54	S	SEP 19, 1984	13.90	S

BLAINE COUNTY

WELL 04N 17E 13AAB1 SITE NUMBER 434108114221001

DRILLED INDUSTRIAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 TO 10 IN, DEPTH 167 FT, 12-IN CASING 0-32 FT, 10-IN CASING 0-54 FT. LSD 5,813.08 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED APR. 4, 1977. MP NO. 1 TOP OF 10-IN CASING SOUTH SIDE, 1.97 FT ABOVE LSD (SINCE APR. 4, 1977).

RECORDS AVAILABLE 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.44 FEET BELOW LAND SURFACE DATUM APR 26, 1983.

LOWEST WATER LEVEL 17.26 FEET BELOW LAND SURFACE DATUM NOV 22, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	15.94	JAN 10, 1984	16.22 S	APR 10, 1984	14.11	JUL 10, 1984	14.35
10	15.95	15	16.31	15	14.19	15	14.66
15	16.13	20	16.03	20	11.87	20	14.91
20	16.26	25	16.03	24	11.63	24	14.20
25	16.33	31	16.14	25	11.78	25	14.23
27	16.37	FEB 05	16.28	30	13.50	31	14.68
28	16.23	10	16.36	MAY 05	14.09	AUG 05	15.06
31	16.21	15	16.47	10	14.28	10	15.23
NOV 05	16.17	20	16.49	15	13.24	15	15.22
10	15.91	25	16.51	20	13.34	20	15.84
11	15.76	27	16.52	25	13.62	25	15.79
15	15.94	29	16.50	31	13.48	31	15.80
20	16.09	MAR 05	16.49	JUN 05	13.46	SEP 05	15.42
25	16.22	10	16.41	10	14.02	10	15.39
30	16.29	15	16.18	15	14.07	15	15.70
DEC 05	16.32	20	16.26	20	13.48	20	15.87
10	16.32	25	15.85	25	13.62	25	15.74
15	16.37	31	15.83	30	13.70	30	15.84
20	16.46	APR 05	15.22	JUL 05	14.12		

WELL 01N 18E 01DAA1 SITE NUMBER 432657114144201

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN, DEPTH 84.8 FT, CASED TO 83 FT, PERFORATED 78-84 FT. LSD 5,136.59 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED JULY 22, 1954. RECORDER REMOVED OCT. 4, 1955. RECORDER INSTALLED MAY 21, 1975. RECORDER REMOVED DEC. 10, 1976. RECORDER INSTALLED AUG. 24, 1978. MP NO. 1 TOP OF CASING WEST SIDE, 0.90 FT ABOVE LSD (SINCE JULY 22, 1954).

RECORDS AVAILABLE 1954 - 1955, 1956 - 1968, 1969 - 1974, 1975 - 1976, 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 31.51 FEET BELOW LAND SURFACE DATUM JUN 19, 1965.

LOWEST WATER LEVEL 50.73 FEET BELOW LAND SURFACE DATUM MAR 27, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	41.85	NOV 30, 1983	42.84	FEB 05, 1984	43.30	APR 05, 1984	45.17
10	41.85	DEC 05	43.03	10	43.39	10	44.24
15	41.97	10	43.14	15	43.23	15	43.53
20	42.11	15	43.24	20	43.74	20	43.28
25	42.28	20	43.47	25	44.37	25	43.25
27	42.35	25	43.32	29	44.79	30	43.36
28	42.34	31	43.41	MAR 05	45.05	MAY 05	43.51
31	42.39	JAN 05, 1984	43.37	10	45.29	10	43.63
NOV 03	42.38	10	43.23	15	45.38	15	41.92
10	42.40	15	43.32	20	45.44	JUL 24	38.22 S
15	42.41	20	43.72	21	45.46	SEP 16	42.53 S
20	42.42	25	43.22	25	45.41	20	42.36
25	42.63	31	43.36	31	45.40		

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WELL 01S 17E 17BBB1 SITE NUMBER 432028114282401

DRILLED STOCK WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 18 IN, DEPTH 153.6 FT, CASED TO 28 FT. LSD ABOUT 4,938 FT NGVD OF 1929. MP NO. 2 TOP OF 1/2-IN HOLE IN CASING COVER SOUTHEAST SIDE, 0.52 FT ABOVE LSD (SINCE OCT. 26, 1981).

RECORDS AVAILABLE 1977 - 1981, 1982 TO CURRENT YEAR.

HIGHEST WATER LEVEL 35.05 FEET BELOW LAND SURFACE DATUM SEP 16, 1984.

LOWEST WATER LEVEL 43.17 FEET BELOW LAND SURFACE DATUM FEB 23, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	37.47	S	MAR 12, 1984	38.06	S	JUL 23, 1984	33.51	S	SEP 16, 1984	35.05	S
JAN 10, 1984	37.90	S	MAY 07	36.84	S						

WELL 01S 18E 14AAB1 SITE NUMBER 432042114163801

DRILLED IRRIGATION ARTESIAN WELL IN GRAVEL OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 120 FT, CASING DEPTH NOT AVAILABLE. LSD 4,904.22 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF DISCHARGE PIPE (NOT ELBOW), 3.74 FT ABOVE LSD (SINCE JULY 18, 1983).

RECORDS AVAILABLE 1954 - 1957, 1958 - 1968, 1969 - 1971, 1972 - 1974, 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 46.47 FEET ABOVE LAND SURFACE DATUM JUN 27, 1958.

LOWEST WATER LEVEL 12.69 FEET ABOVE LAND SURFACE DATUM SEP 07, 1977.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18, 1983	35.09 E M	MAR 12, 1984	27.59 E M	JUL 23, 1984	29.94 E M	SEP 16, 1984	33.64 E M
JAN 10, 1984	30.14 E M	MAY 07	31.74 E M				

WELL 01S 19E 03CCB2 SITE NUMBER 432143114114301

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN, DEPTH 51.1 FT, CASED TO 51 FT, PERFORATED 25-35 FT. LSD 4,933.70 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. WATER LEVEL INFLUENCED BY NEARBY WELL BEING PUMPED. RECORDER INSTALLED JULY 29, 1954. MP NO. 2 TOP OF CASING EAST SIDE, 1.30 FT ABOVE LSD (SINCE JUNE 17, 1964).

RECORDS AVAILABLE 1954 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.55 FEET BELOW LAND SURFACE DATUM AUG 12, 1965.

LOWEST WATER LEVEL 22.26 FEET BELOW LAND SURFACE DATUM MAR 20, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	9.38	E	JAN 25, 1984	15.96	APR 25, 1984	15.77	JUL 25, 1984	10.27
31	11.19		31	16.18	30	15.81	31	9.34
NOV 05	11.45		FEB 05	16.36	MAY 05	15.80	AUG 05	8.60
10	11.70		10	16.52	10	15.86	10	9.85
15	11.83		15	16.64	15	15.92	15	9.14
20	11.99		20	16.77	20	16.14	19	8.00
25	12.53		25	16.88	25	15.92	20	8.07
30	12.94		29	16.98	31	15.41	25	8.54
DEC 05	13.30		MAR 05	17.11	JUN 05	14.72	31	8.80
10	13.60		10	17.23	10	13.75	SEP 05	8.87
15	13.84		15	17.33	15	12.81	10	9.86
20	14.14		20	17.27	20	12.07	15	9.19
25	14.47		25	17.13	25	11.49	20	9.57
31	14.82		31	16.95	30	11.34	25	9.94
JAN 05, 1984	15.14		APR 05	16.30	JUL 05	9.92	30	10.08
10	15.36		10	15.70	10	10.61		
15	15.56		15	15.77	15	10.95		
20	15.77		20	15.73	20	10.58		

BLAINE COUNTY--CONTINUED

WELL 01S 19E 22AAA1 SITE NUMBER 431950114102901

FORMERLY SITE ID NO. 431944114102501. DRILLED OBSERVATION ARTESIAN WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 150 FT, CASED TO 116 FT, PERFORATED, INTERVAL NOT AVAILABLE. LSD 4,885.39 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 4 TOP OF 2-IN PIPE COUPLING, 4.07 FT ABOVE LSD (SINCE JULY 24, 1984).

RECORDS AVAILABLE 1934 - 1968, 1969 - 1971, 1972 - 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 11.18 FEET ABOVE LAND SURFACE DATUM SEP 22, 1975.

LOWEST WATER LEVEL 2.80 FEET ABOVE LAND SURFACE DATUM JUL 17, 1977.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18, 1983	8.27 E M	MAR 13, 1984	6.48 E S	JUL 24, 1984	6.65 E S	SEP 17, 1984	7.72 E S
JAN 10, 1984	7.15 E S	MAY 08	6.70 E S				

WELL 01S 22E 09CCA1 SITE NUMBER 432033113511201

FORMERLY SITE ID NO. 432046113512501, WELL NO. 01S 22E 09CCD1. DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 98.1 FT, CASED TO 21 FT. LSD ABOUT 4,863 FT NGVD OF 1929. OCT. 11, 1972, WELL HAD FILLED TO A DEPTH OF 94.0 FT. MP NO. 2 TOP OF CASING, 1.50 FT ABOVE LSD (SINCE FEB. 19, 1962).

RECORDS AVAILABLE 1960 - 1968, 1969 - 1971, 1972 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 45.00 FEET BELOW LAND SURFACE DATUM MAY 25, 1965.

LOWEST WATER LEVEL 77.28 FEET BELOW LAND SURFACE DATUM JAN 24, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 14, 1983	62.33 S	MAR 13, 1984	62.16 S	JUL 25, 1984	53.67 S	SEP 18, 1984	52.23 S
JAN 13, 1984	50.84 S	MAY 11	49.53 S				

WELL 01S 23E 26CCC1 SITE NUMBER 431810113413601

FORMERLY SITE ID NO. 431803113433001. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 1,030.7 FT, CASED TO 1,030.7 FT, PERFORATED 1,000.7-1,025.7 FT. LSD ABOUT 5,030 FT NGVD OF 1929. MP NO. 1 TOP OF 2-IN PIPE COUPLING SOUTHWEST SIDE, 2.12 FT ABOVE LSD (SINCE SEPT. 19, 1972).

RECORDS AVAILABLE 1972 - 1974, 1975 - 1976, 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 946.97 FEET BELOW LAND SURFACE DATUM FEB 27, 1974.

LOWEST WATER LEVEL 958.25 FEET BELOW LAND SURFACE DATUM SEP 22, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 18, 1983	955.41 S	MAY 08, 1984	953.40 S	JUL 24, 1984	953.22 S	SEP 17, 1984	953.56 S
FEB 06, 1984	954.32 S						

WELL 02S 20E 01ACC2 SITE NUMBER 431642114013002

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 10 IN, DEPTH 208.6 FT, CASED TO 208 FT, PERFORATED 183-194 FT, 197-206 FT. LSD 4,796.07 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED AUG. 17, 1955. RECORDER REMOVED AUG. 20, 1971. MP NO. 1 TOP OF CASING NORTHEAST SIDE, 1.20 FT ABOVE LSD (SINCE OCT. 18, 1954).

RECORDS AVAILABLE 1954, 1955 - 1971, 1972 - 1974, 1975 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 125.04 FEET BELOW LAND SURFACE DATUM SEP 25, 1965.

LOWEST WATER LEVEL 152.54 FEET BELOW LAND SURFACE DATUM FEB 26, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 13, 1984	149.92	S	SEP 17, 1984	142.96	S

WELL 03S 27E 24DDA1 SITE NUMBER 430836113143401

FORMERLY SITE ID NO. 430833113143601. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, DEPTH 900.7 FT, CASED TO 900.7 FT, PERFORATED 849-899 FT. LSD 4,982.10 FT NGVD OF 1929. MP NO. 1 TOP OF 2-IN PIPE COUPLING, 2.35 FT ABOVE LSD (SINCE JULY 9, 1971).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 846.83 FEET BELOW LAND SURFACE DATUM MAY 29, 1973.

LOWEST WATER LEVEL 857.75 FEET BELOW LAND SURFACE DATUM NOV 16, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 06, 1983	856.16	S	JUN 01, 1984	853.59	S	JUL 13, 1984	853.15	S	SEP 12, 1984	853.26	S
APR 27, 1984	853.98	S									

WELL 07S 26E 14CCC1 SITE NUMBER 424826113233201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 747 FT, CASED TO 367 FT. LSD 4,403.11 FT NGVD OF 1929. RECORDER INSTALLED SEPT. 17, 1980. MP NO. 1 TOP OF 6-IN CASING EAST SIDE, 1.44 FT ABOVE LSD (SINCE OCT. 26, 1977).

RECORDS AVAILABLE 1977, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 308.74 FEET BELOW LAND SURFACE DATUM OCT 26, 1977.

LOWEST WATER LEVEL 317.69 FEET BELOW LAND SURFACE DATUM AUG 05, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	315.78	JAN 10, 1984	313.60		APR 15, 1984	311.97	JUL 15, 1984	313.36
10	315.68	15	313.68		20	312.03	20	313.46
15	315.54	20	313.59		25	311.78	25	313.61
20	315.30	25	313.37		30	311.87	31	313.60
25	315.29	31	313.35		MAY 05	311.76	AUG 02	313.69
31	315.02	FEB 05	313.25	S	10	311.72	05	313.56
NOV 05	314.87	10	313.10		14	311.57	10	313.54
10	314.65	15	313.12		15	311.70	15	313.50
16	314.53	20	313.17		20	311.79	20	313.46
20	314.25	25	313.00		25	311.93	25	313.44
25	314.27	29	312.98		31	312.10	31	313.40
30	314.22	MAR 05	312.93		JUN 05	312.18	SEP 05	313.38
DEC 05	314.22	10	312.91		10	312.22	10	313.29
10	314.10	15	312.70		15	312.41	15	313.26
15	313.96	20	312.62		20	312.37	20	313.15
20	313.85	25	312.45		25	312.61	25	313.25
25	313.71	31	312.22		30	312.82	30	312.94
31	313.69	APR 05	312.13		JUL 05	312.92		
JAN 05, 1984	313.72	10	311.91		10	313.19		

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WELL 08S 26E 03DCC1 SITE NUMBER 424454113240101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 746 FT, CASED TO 334 FT. LSD 4,346.52 FT NGVD OF 1929. RECORDER INSTALLED SEPT. 17, 1980. MP NO. 1 TOP OF 6-IN CASING, 1.31 FT ABOVE LSD (SINCE OCT. 14, 1977).

RECORDS AVAILABLE 1977, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 257.27 FEET BELOW LAND SURFACE DATUM MAY 14, 1984.

LOWEST WATER LEVEL 263.65 FEET BELOW LAND SURFACE DATUM AUG 05, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	261.45	JAN 10, 1984	259.28	APR 15, 1984	257.76	JUL 15, 1984	259.48
10	261.33	15	259.35	20	257.69	20	259.56
15	261.15	20	259.26	25	257.46	25	259.71
20	260.91	25	258.96	30	257.55	31	259.70
25	260.89	31	259.01	MAY 05	257.45	AUG 05	259.61
31	260.59	FEB 05	258.99	10	257.40	10	259.59
NOV 05	260.49	10	258.78	14	257.27	15	259.52
10	260.29	15	258.91	15	257.41	20	259.46
15	260.28	20	258.84	20	257.32	25	259.39
20	259.83	25	258.68	25	257.71	31	259.28
25	259.83	29	258.66	31	258.01	SEP 05	259.28
30	259.82	MAR 05	258.61	JUN 05	258.08	10	259.18
DEC 05	259.86	10	258.60	10	258.06	15	259.16
10	259.72	15	258.35	15	258.25	20	259.01
15	259.58	20	258.27	20	258.24	25	259.08
20	259.47	25	258.01	25	258.55	30	258.74
25	259.40	31	257.80	30	258.81		
31	259.55	APR 05	257.75	JUL 05	258.93		
JAN 03, 1984	259.40	10	257.39	10	259.21		

WELL 08S 26E 33BCB1 SITE NUMBER 424112113255401

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, REPORTED DEPTH 262 FT, 8-IN CASING 0-146 FT, 6-IN CASING 142-262 FT, PERFORATED 212-262 FT. LSD 4,212.73 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. ALL MEASUREMENTS PRIOR TO MAR. 21, 1972, MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED SEPT. 25, 1951. RECORDER REMOVED BY U.S. BUREAU OF RECLAMATION AUG. 9, 1972. MP NO. 2 TOP OF HOLE IN CENTER OF CASING COVER EAST SIDE, 1.03 FT ABOVE LSD (SINCE JULY 23, 1975).

RECORDS AVAILABLE 1951 - 1972, 1973 - 1975, 1976, 1977, 1978 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 97.07 FEET BELOW LAND SURFACE DATUM SEP 10, 1952.

LOWEST WATER LEVEL 113.87 FEET BELOW LAND SURFACE DATUM JUL 13, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
DEC 21, 1983	110.97	S	MAR 13, 1984	111.87	S	JUL 11, 1984	110.86	S	SEP 11, 1984	110.05	S
JAN 23, 1984	111.52	S	MAY 31	110.83	S						

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WELL 08S 26E 33BCB2 SITE NUMBER 424112113255402

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 IN, REPORTED DEPTH 33.0 FT, CASED TO 1 FT, CONCRETE SEAL 33-34 FT. LSD 4,212.73 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MEASUREMENTS PRIOR TO MAR. 21, 1972, MADE BY U.S. BUREAU OF RECLAMATION. MP NO. 2 TOP OF HOLE IN 18-IN CASING COVER SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE JULY 23, 1975).

RECORDS AVAILABLE 1951 - 1957, 1958 - 1962, 1963 - 1971, 1972 - 1977, 1978 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 20.90 FEET BELOW LAND SURFACE DATUM MAY 31, 1984.

LOWEST WATER LEVEL 26.58 FEET BELOW LAND SURFACE DATUM MAR 10, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
DEC 21, 1983	23.16	S	MAR 13, 1984	24.64	S	JUL 11, 1984	21.24	S	SEP 11, 1984	21.30	S
JAN 23, 1984	23.79	S	MAY 31	20.90	S						

WELL 09S 27E 31DDA1 SITE NUMBER 424042113201101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, REPORTED DEPTH 140 FT, CASED TO 86 FT. LSD 4,202.47 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED AUG. 17, 1951. RECORDER REMOVED SEPT. 12, 1962. MP NO. 1 TOP OF 8-IN CASING EAST SIDE, 1.00 FT ABOVE LSD (SINCE AUG. 17, 1951).

RECORDS AVAILABLE 1951 - 1962, 1963 - 1972, 1977, 1978, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 19.63 FEET BELOW LAND SURFACE DATUM OCT 21, 1951.

LOWEST WATER LEVEL 30.39 FEET BELOW LAND SURFACE DATUM JAN 29, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
DEC 21, 1983	28.51	S	MAY 31, 1984	26.39	S	JUL 11, 1984	26.98	S	SEP 11, 1984	27.04	S
APR 26, 1984	26.67	S									

BOISE COUNTY

WELL 09N 04E 22DDD1 SITE NUMBER 440602115580301

DRILLED DOMESTIC WATER-TABLE WELL IN COARSE SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 111 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 3,100 FT NGVD OF 1929. MP NO. 1 ACCESS HOLE IN TOP OF 6-IN CASING, 0.80 FT ABOVE LSD (SINCE JULY 12, 1971).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 52.66 FEET BELOW LAND SURFACE DATUM JUL 18, 1984.

LOWEST WATER LEVEL 57.80 FEET BELOW LAND SURFACE DATUM JAN 22, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 21, 1983	53.86	S	MAR 20, 1984	53.73	S	JUL 18, 1984	52.66	S	SEP 25, 1984	53.44	S
JAN 23, 1984	54.05 R	S	MAY 16	53.37	S						

WELL 03N 34E 32BBC1 SITE NUMBER 433307112300001

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 786.0 FT, CASED TO 786 FT, PERFORATED 741-786 FT, GRAVEL PACKED BACKFILL AROUND CASING. LSD 5,216.55 FT NGVD OF 1929. JULY 26, 1957, WELL HAD FILLED IN TO A DEPTH OF 720.6 FT. MAY 27, 1964, WELL WAS CLEANED TO A DEPTH OF 786.0 FT. MP NO. 3 TOP OF 8-IN CASING NORTHEAST SIDE, 1.46 FT ABOVE LSD (SINCE MAY 27, 1964).

RECORDS AVAILABLE 1950 - 1951, 1952 - 1953, 1954 - 1957, 1964 TO CURRENT YEAR.

HIGHEST WATER LEVEL 716.67 FEET BELOW LAND SURFACE DATUM JAN 17, 1973.

LOWEST WATER LEVEL 725.74 FEET BELOW LAND SURFACE DATUM AUG 20, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 28, 1983	721.68	S	FEB 01, 1984	719.87	S	MAY 01, 1984	720.39	S	AUG 01, 1984	721.47	S
DEC 03	720.35	S	28	719.93	S	31	720.74	S	30	721.08	S
30	719.63	S	MAR 26	719.98	S	JUN 25	721.07	S	SEP 28	721.88	S

WELL 03N 37E 02CBD1 SITE NUMBER 433656112043901

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 TO 18 IN, REPORTED DEPTH 308 FT, 20-IN CASING 0-18 FT, 18-IN CASING 217-270 FT. LSD 4,815.97 FT NGVD OF 1929. MP NO. 1 TOP OF CASING, 0.50 FT ABOVE LSD (SINCE MAY 20, 1957).

RECORDS AVAILABLE 1957 - 1971, 1972 - 1976, 1977 - 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 145.47 FEET BELOW LAND SURFACE DATUM SEP 17, 1973.

LOWEST WATER LEVEL 176.90 FEET BELOW LAND SURFACE DATUM MAY 20, 1957.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 12, 1984	170.40	S	SEP 10, 1984	146.26	S

WELL 03N 37E 123DB1 SITE NUMBER 433625112031801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 550 FT, CASED TO 200 FT. LSD 4,752.09 FT NGVD OF 1929. RECORDER INSTALLED OCT. 2, 1980. MP NO. 2 TOP OF 6-IN CASING WEST SIDE AT LSD (SINCE SEPT. 24, 1980).

RECORDS AVAILABLE 1976 - 1977, 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 100.50 FEET BELOW LAND SURFACE DATUM SEP 28, 1982.

LOWEST WATER LEVEL 133.92 FEET BELOW LAND SURFACE DATUM APR 28, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	101.77		JAN 25, 1984	122.91		APR 30, 1984	131.20	JUN 30, 1984	119.02
10	101.46		29	123.97		MAY 05	131.19	JUL 04	117.80
15	101.06		MAR 13	129.37	S	10	131.18	25	110.80
20	101.87		15	129.43		15	131.32	31	108.58
25	103.12		20	130.20		20	130.37	AUG 05	106.89
31	104.13		25	130.60		25	129.55	10	105.73
NOV 05	104.85		31	130.95		31	128.10	15	104.73
10	107.24		APR 05	131.28		JUN 05	125.88	20	103.82
15	107.90	S	10	131.38		10	124.10	25	103.41
JAN 13, 1984	120.51	S	15	131.27		15	122.51	31	103.02
15	120.96		20	131.29		20	121.43	SEP 05	102.97
20	122.83		25	131.25		25	120.49		

WELL 03N 38E 22BAB1 SITE NUMBER 433437111383701

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, REPORTED DEPTH 155 FT, CASED TO 66 FT. LSD ABOUT 4,790 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN HOLE IN WELL SEAL SOUTH SIDE, 1.90 FT ABOVE LSD (SINCE SEPT. 19, 1973).

RECORDS AVAILABLE 1973 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 88.36 FEET BELOW LAND SURFACE DATUM SEP 14, 1982.

LOWEST WATER LEVEL 130.32 FEET BELOW LAND SURFACE DATUM MAY 17, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	96.33	S	MAR 12, 1984	121.79	S	JUL 24, 1984	100.57	S	SEP 10, 1984	90.80	S
JAN 16, 1984	114.70	S	MAY 18	125.85	S						

WELL 03N 40E 08BAA1 SITE NUMBER 433638111462901

DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 18 TO 8 IN, DEPTH 425.0 FT, 18-IN CASING 0-380 FT, 8-IN CASING 380-435 FT. LSD 5,042.60 FT NGVD OF 1929. MP NO. 3 TOP OF 3/4-IN HOLE IN WELL SEAL SOUTH SIDE OF CAP, 2.53 FT ABOVE LSD (SINCE OCT. 27, 1969).

RECORDS AVAILABLE 1957 - 1966, 1967 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 125.00 FEET BELOW LAND SURFACE DATUM SEP 26, 1979.

LOWEST WATER LEVEL 184.29 FEET BELOW LAND SURFACE DATUM APR 27, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 12, 1984	167.10	S	SEP 10, 1984	127.97	S

WELL 02N 35E 02BBC1 SITE NUMBER 433218112191601

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 10 IN, DEPTH 682.5 FT, CASED TO 108 FT. LSD 5,089.83 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. JULY 1, 1969, WELL WAS DEEPENED BY CORE DRILL TO A DEPTH OF 800.0 FT, DIAM 3 IN, GRAVEL FILL 651-800 FT, CONCRETE SEAL 800-883 FT, 3/4-IN PIEZOMETER TUBE 0-651 FT, PERFORATED 643.5-648.5 FT. MP NO. 2 TOP OF 10-IN CASING NORTHWEST SIDE, 1.18 FT ABOVE LSD (SINCE JAN. 27, 1972).

RECORDS AVAILABLE 1950 - 1953, 1954 - 1959, 1960 - 1962, 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 573.29 FEET BELOW LAND SURFACE DATUM JAN 17, 1973.

LOWEST WATER LEVEL 585.85 FEET BELOW LAND SURFACE DATUM JUL 15, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 07, 1983	578.04	S	FEB 01, 1984	577.06	S	MAY 01, 1984	578.78	S	JUL 18, 1984	581.65	S
DEC 03	577.06	S	28	576.99	S	31	579.64	S	AUG 30	579.73	S
31	577.06	S	MAR 26	577.90	S	JUN 25	580.09	S	SEP 28	579.35	S

WELL 02N 35E 02BBC2 SITE NUMBER 433218112191602

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 982 FT, 3/4-IN PIEZOMETER TUBE 0-917 FT, PERFORATED 909.5-914.5 FT, GRAVEL FILL 883-982 FT, CONCRETE SEAL 800-883 FT, 982-1,038 FT. LSD 5,089.83 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF 10-IN CASING NORTHWEST SIDE, 1.18 FT ABOVE LSD (SINCE JULY 23, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 573.26 FEET BELOW LAND SURFACE DATUM NOV 24, 1973.

LOWEST WATER LEVEL 584.68 FEET BELOW LAND SURFACE DATUM JUL 15, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 07, 1983	577.34	S	FEB 01, 1984	576.95	S	MAY 01, 1984	578.79	S	JUL 18, 1984	580.53	S
DEC 03	576.66	S	28	577.49	S	31	579.39	S	AUG 30	578.79	S
31	576.81	S	MAR 26	577.89	S	JUN 25	579.80	S	SEP 28	578.07	S

WELL 02N 35E 02BBC3 SITE NUMBER 433218112191603

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 1,147 FT, 3/4-IN PIEZOMETER TUBE 0-1,125 FT, PERFORATED 1,117.5-1,122.5 FT, GRAVEL FILL 1,038-1,147 FT, CONCRETE SEAL 982-1038 FT, 1,147-1,178 FT. LSD 5,089.83 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF 10-IN CASING NORTHWEST SIDE, 1.18 FT ABOVE LSD (SINCE JULY 23, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 573.51 FEET BELOW LAND SURFACE DATUM JAN 17, 1973.

LOWEST WATER LEVEL 584.70 FEET BELOW LAND SURFACE DATUM JUL 15, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 07, 1983	577.59	S	FEB 01, 1984	577.13	S	MAY 01, 1984	578.90	S	JUL 18, 1984	580.64	S
DEC 03	576.83	S	28	577.67	S	31	579.51	S	AUG 30	578.99	S
31	576.97	S	MAR 26	578.02	S	JUN 25	579.94	S	SEP 28	578.65	S

WELL 02N 37E 02ABA1 SITE NUMBER 433220112040701

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 501.5 FT, CASED TO 223 FT, CONCRETE SEAL 218-223 FT. LSD 4,724.93 FT NGVD OF 1929. RECORDER INSTALLED OCT. 1, 1980. MP NO. 2 TOP OF 6-IN CASING SOUTH SIDE AT LSD (SINCE SEPT. 25, 1980).

RECORDS AVAILABLE 1975, 1977 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 143.4 FEET BELOW LAND SURFACE DATUM NOV 17, 1975.

LOWEST WATER LEVEL 174.76 FEET BELOW LAND SURFACE DATUM MAY 15, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL
OCT 05, 1983	147.27		DEC 20, 1983	150.74		MAR 25, 1984	165.19		JUL 31, 1984	157.55
10	146.95		JAN 16, 1984	156.79	S	31	165.61		AUG 05	156.44
15	146.68		20	157.38		APR 05	165.92		10	155.70
20	146.72		25	157.92		10	166.20		15	154.83
25	147.11		31	158.84		15	166.72		20	153.74
31	147.09		FEB 05	159.05		20	166.83		25	152.93
NOV 05	147.41		10	159.97		25	166.97		31	152.11
10	147.81		15	160.68		30	167.37		SEP 05	151.56
15	148.30		20	161.44		MAY 05	167.55		10	150.51
20	148.30		25	161.88		10	167.86		15	150.08
25	148.30		29	162.51		13	168.15		20	149.71
30	149.30		MAR 05	163.15		15	168.07		25	149.46
DEC 05	148.69		10	163.76		18	167.90	S	30	149.07
10	148.26		15	164.08		JUL 24	159.38	S		
15	151.06		20	164.75		25	159.08			

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BONNEVILLE COUNTY--CONTINUED

WELL 02N 38E 16ADD1 SITE NUMBER 433029111590201

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 225.0 FT, 6-IN CASING 0-36 FT, 6-IN CASING 0-185 FT. LSD ABOUT 4,738 FT NGVD OF 1929. MP NO. 1 TOP OF 6-IN CASING NORTH SIDE, 0.70 FT ABOVE LSD (SINCE FEB. 9, 1970).

RECORDS AVAILABLE 1970 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 95.88 FEET BELOW LAND SURFACE DATUM AUG 14, 1978.

LOWEST WATER LEVEL 129.11 FEET BELOW LAND SURFACE DATUM MAY 22, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 12, 1984	119.15	S	SEP 10, 1984	99.37	S

WELL 01N 36E 01CCB1 SITE NUMBER 432633112103301

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 217.0 FT, CASED TO 185 FT, PERFORATED 150-182 FT. LSD 4,674.05 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED APR. 6, 1960. RECORDER REMOVED NOV. 11, 1971. MP NO. 5 TOP OF 1-IN PIPE COUPLING, 1.54 FT ABOVE LSD (SINCE AUG. 11, 1980).

RECORDS AVAILABLE 1958, 1960 - 1971, 1972 - 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 142.95 FEET BELOW LAND SURFACE DATUM OCT 16, 1971.

LOWEST WATER LEVEL 158.00 FEET BELOW LAND SURFACE DATUM MAY 25, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 13, 1984	152.51	S	SEP 10, 1984	150.03	S

WELL 01N 37E 15BBA1 SITE NUMBER 432528112055701

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 140 FT, 3/4-IN PIEZOMETER TUBE 0-118 FT, PERFORATED 111-116 FT, GRAVEL FILL 0-140 FT, CONCRETE SEAL 140-167 FT. LSD 4,645.70 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 1 TOP OF 3/4-IN PIPE NORTH SIDE, 0.88 FT ABOVE LSD (SINCE SEPT. 20, 1973).

RECORDS AVAILABLE 1971, 1973 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 83.15 FEET BELOW LAND SURFACE DATUM SEP 20, 1973.

LOWEST WATER LEVEL 109.60 FEET BELOW LAND SURFACE DATUM MAY 25, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	90.45	S	MAR 12, 1984	103.12	S	JUL 24, 1984	93.43	S	SEP 10, 1984	89.62	S
JAN 16, 1984	97.14	S	MAY 18	105.43	S						

WELL 01N 37E 15DBA2 SITE NUMBER 432528112055702

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 255 FT, 3/4-IN PIEZOMETER TUBE 0-187.8 FT, PERFORATED 180.8-185.8 FT, GRAVEL FILL 167-255 FT, CONCRETE SEAL 140-167 FT, 255-280 FT. LSD 4,645.70 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 1 TOP OF 3/4-IN PIPE NORTH SIDE, 0.65 FT ABOVE LSD (SINCE SEPT. 20, 1973).

RECORDS AVAILABLE 1971, 1973 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 83.04 FEET BELOW LAND SURFACE DATUM SEP 20, 1973.

LOWEST WATER LEVEL 109.46 FEET BELOW LAND SURFACE DATUM MAY 25, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	90.40	S	MAR 12, 1984	102.55	S	JUL 24, 1984	95.50	S	SEP 10, 1984	89.15	S
JAN 16, 1984	94.38	S	MAY 18	105.08	S						

WELL 01N 37E 15DBA3 SITE NUMBER 432528112055703

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 356 FT, 3/4-IN PIEZOMETER TUBE 0-318.0 FT, SAND POINT 315.5-318.0 FT, GRAVEL FILL 280-356 FT, CONCRETE SEAL 255-280 FT. LSD 4,645.70 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 1 TOP OF 3/4-IN PIPE NORTH SIDE, 0.50 FT ABOVE LSD (SINCE SEPT. 20, 1973).

RECORDS AVAILABLE 1971, 1973 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 78.29 FEET BELOW LAND SURFACE DATUM SEP 20, 1973.

LOWEST WATER LEVEL 108.56 FEET BELOW LAND SURFACE DATUM MAY 25, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	87.70	S	MAR 12, 1994	102.00	S	JUL 24, 1984	93.27	S	SEP 10, 1984	86.00	S
JAN 16, 1984	90.80	S	MAY 18	104.68	S						

BUTTE COUNTY

WELL 10N 27E 19CAA1 SITE NUMBER 441052113171001

DRILLED IRRIGATION WATER-TABLE WELL IN GRAVEL OF QUATERNARY AGE, DIAM 16 IN, DEPTH 127.5 FT, CASED TO 128 FT, PERFORATED 56-128 FT. LSD ABOUT 6,037 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN HOLE INSIDE PUMPBASE SOUTHWEST SIDE, 1.30 FT ABOVE LSD (SINCE SEPT. 24, 1963).

RECORDS AVAILABLE 1963 - 1966, 1970 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 32.89 FEET BELOW LAND SURFACE DATUM JUL 24, 1984.

LOWEST WATER LEVEL 39.75 FEET BELOW LAND SURFACE DATUM APR 24, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	35.42	S	MAR 14, 1984	35.66	S	JUL 24, 1984	32.89	S	SEP 11, 1984	33.52	S
JAN 11, 1984	35.64	S	MAY 09	35.07	S						

WELL 07N 31E 34BDD1 SITE NUMBER 435339112444601

FORMERLY SITE ID NO. 435340112444901, WELL NO. 07N 31E 34BDC1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 320 FT, CASED TO 320 FT, PERFORATED 285-320 FT, CEMENTED BOTTOM. LSD 4,848.83 FT NGVD OF 1929. RECORDER INSTALLED OCT. 15, 1952. RECORDER REMOVED OCT. 13, 1954. RECORDER INSTALLED MAY 12, 1961. MP NO. 2 TOP OF 6 1/4-IN CASING NORTHEAST SIDE, 2.40 FT ABOVE LSD (SINCE OCT. 15, 1952).

RECORDS AVAILABLE 1952 - 1954, 1955 - 1960, 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 263.62 FEET BELOW LAND SURFACE DATUM MAY 12, 1974.

LOWEST WATER LEVEL 270.99 FEET BELOW LAND SURFACE DATUM OCT 09, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	269.89	JAN 05, 1984	268.44		APR 10, 1984	266.83	JUL 10, 1984	267.05
10	269.83	10	268.30		15	267.07	15	267.17
11	269.90	15	268.26		20	266.83	20	267.20
15	269.74	18	268.16		25	266.66	25	267.41
20	269.70	25	267.95	S	30	266.81	31	267.46
25	269.80	31	267.99		MAY 05	266.63	AUG 05	267.50
31	269.50	FEB 05	267.97		10	266.60	10	267.57
NOV 05	269.38	10	267.60		15	266.48	15	267.65
10	269.31	15	267.77		20	266.47	20	267.65
15	269.30	20	267.79		25	266.36	25	267.70
20	268.85	25	267.50		31	266.31	31	267.62
25	268.81	29	267.54		JUN 05	266.48	SEP 05	267.67
30	268.90	MAR 05	267.53		06	266.38	10	267.53
DEC 05	268.85	10	267.46		10	266.50	15	267.55
10	268.66	15	267.25		15	266.71	20	267.37
15	268.63	20	267.32		20	266.67	30	267.37
20	268.48	25	267.15		25	266.82		
25	268.47	31	267.04		30	266.88		
31	268.54	APR 05	266.97		JUL 05	266.93		

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WELL 06N 33E 03ADA1 SITE NUMBER 435313113272301

DRILLED UNUSED WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 4 IN, DEPTH 93.7 FT, CASED TO 110 FT. LSD ABOUT 5,760 FT NGVD OF 1929. RECORDER INSTALLED OCT. 1, 1966. RECORDER REMOVED SEPT. 27, 1971. MP NO. 1 TOP OF 4-IN CASING NORTHEAST SIDE, 0.80 FT ABOVE LSD (SINCE SEPT. 9, 1966).

RECORDS AVAILABLE 1966 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 63.97 FEET BELOW LAND SURFACE DATUM SEP 01, 1974.

LOWEST WATER LEVEL 78.70 FEET BELOW LAND SURFACE DATUM MAR 07, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1983	69.02	S	JAN 17, 1984	69.14	S	MAY 09, 1984	71.09	S	AUG 06, 1984	65.17	S
23	68.68	S	FEB 07	69.78	S	10	71.09	S	23	65.26	S
29	69.00	S	MAR 05	70.71	S	JUN 04	68.48	S	SEP 17	67.24	S
DEC 12	69.14	S	15	70.93	S	JUL 16	66.87	S			
JAN 12, 1984	68.83	S	APR 03	71.12	S	24	66.57	S			

WELL 06N 28E 13DDA1 SITE NUMBER 435045113031701

DRILLED IRRIGATION WATER-TABLE WELL IN GRAVEL OF QUATERNARY AGE, DIAM 16 IN, REPORTED DEPTH 201 FT, CASED TO 201 FT, PERFORATED 100-201 FT. LSD ABOUT 4,945 FT NGVD OF 1929. MP NO. 2 TOP OF 5/8-IN HOLE INSIDE PUMPBASE NORTHEAST SIDE, 0.80 FT ABOVE LSD (SINCE MAY 5, 1965).

RECORDS AVAILABLE 1964 - 1968, 1969 - 1971, 1972 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 95.08 FEET BELOW LAND SURFACE DATUM APR 11, 1973.

LOWEST WATER LEVEL 112.61 FEET BELOW LAND SURFACE DATUM MAR 21, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	100.38	S	MAR 14, 1984	98.32	S	JUL 24, 1984	98.55	S	SEP 11, 1984	95.48	S
JAN 11, 1984	98.53	S	MAY 09	97.35	S						

WELL 06N 29E 16DDD1 SITE NUMBER 435033112593701

FORMERLY SITE ID NO. 435032112594001. DRILLED DOMESTIC WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN, DEPTH 99.8 FT, CASED TO 101 FT, PERFORATED 94-99 FT, OPEN BOTTOM. LSD ABOUT 4,865 FT NGVD OF 1929. MP NO. 2 TOP OF CASING EAST SIDE, 1.00 FT ABOVE LSD (SINCE NOV. 19, 1963).

RECORDS AVAILABLE 1959 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 54.33 FEET BELOW LAND SURFACE DATUM MAY 10, 1973.

LOWEST WATER LEVEL 81.87 FEET BELOW LAND SURFACE DATUM AUG 28, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	59.70	S	MAR 14, 1984	54.83	S	JUL 24, 1984	64.01	S	SEP 11, 1984	61.33	S
JAN 11, 1984	55.79	S	MAY 09	54.37	S						

WELL 06N 31E 27BDD1 SITE NUMBER 434915112443901

FORMERLY SITE ID NO. 434930112443901, WELL NO. 06N 31E 27BAD1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 775.0 FT, CASED TO 760 FT, PERFORATED 241-261 FT. LSD 4,790.17 FT NGVD OF 1929. AUG. 1952 WELL WAS DEEPENED TO A DEPTH OF 1,200 FT, LATER CAVED TO 903.0 FT. RECORDER INSTALLED MAY 13, 1950. RECORDER REMOVED MAY 2, 1956. MP NO. 3 TOP OF 6 1/4-IN CASING NORTHEAST SIDE, 1.45 FT ABOVE LSD (SINCE AUG. 26, 1952).

RECORDS AVAILABLE 1950 - 1956, 1957 TO CURRENT YEAR.

HIGHEST WATER LEVEL 207.29 FEET BELOW LAND SURFACE DATUM APR 24, 1974.

LOWEST WATER LEVEL 220.24 FEET BELOW LAND SURFACE DATUM JUN 26, 1952.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 26, 1983	212.65	S	JAN 26, 1984	211.09	S	APR 26, 1984	209.72	S	JUL 12, 1984	210.03	S
DEC 02	211.67	S	FEB 27	210.68	S	MAY 23	209.57	S	AUG 28	210.74	S
21	211.35	S	MAR 28	210.22	S	JUN 26	209.97	S	SEP 26	210.50	S

WELL 05N 26E 23CDA1 SITE NUMBER 434436113193901

FORMERLY SITE ID NO. 434442113195101, WELL NO. 05N 26E 23CDB1. DRILLED IRRIGATION WATER-TABLE WELL IN GRAVEL OF QUATERNARY AGE, DIAM 20 TO 16 IN, DEPTH 197.6 FT, CASING DEPTH NOT AVAILABLE, PERFORATED IN GRAVEL. LSD 5,488.02 FT NGVD OF 1929. MP NO. 2 TOP OF 20-IN CASING WEST SIDE, 0.45 FT BELOW LSD (SINCE OCT. 7, 1959).

RECORDS AVAILABLE 1950 - 1951, 1952 - 1953, 1954 - 1960, 1961 - 1971, 1972 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 14.13 FEET BELOW LAND SURFACE DATUM SEP 24, 1971.

LOWEST WATER LEVEL 50.87 FEET BELOW LAND SURFACE DATUM MAR 17, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 08, 1983	19.23	S	JAN 12, 1984	20.65	S	APR 02, 1984	22.60	S	AUG 06, 1984	17.70	S
17	19.27	S	17	20.84	S	MAY 10	21.35	S	SEP 17	17.83	S
23	19.51	S	FEB 06	21.59	S	JUN 04	20.04	S			
29	19.69	S	MAR 05	21.83	S	JUL 16	18.13	S			
DEC 13	19.76	S	15	22.30	S	24	17.78	S			

WELL 05N 29E 01BBB1 SITE NUMBER 434751112571801

FORMERLY SITE ID NO. 434745112571501. DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 154 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 4,808 FT NGVD OF 1929. APR. 4, 1966, WELL HAD FILLED IN TO A DEPTH OF 148.8 FT. MP NO. 2 TOP OF 16-IN CASING WEST SIDE, 1.20 FT ABOVE LSD (SINCE APR. 4, 1966).

RECORDS AVAILABLE 1959, 1965 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 115.38 FEET BELOW LAND SURFACE DATUM NOV 12, 1971.

LOWEST WATER LEVEL 124.61 FEET BELOW LAND SURFACE DATUM AUG 05, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	121.16	S	MAR 14, 1984	121.00	S	JUL 24, 1984	121.02	S	SEP 11, 1984	117.86	S
JAN 11, 1984	121.57	S	MAY 09	121.36	S						

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WELL 05N 29E 23CDD1 SITE NUMBER 434426112575701

FORMERLY SITE ID NO. 434430112575901, WELL NO. 05N 29E 23CDA1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 399.2 FT, CASED TO 399 FT, PERFORATED 285-306 FT, CEMENTED BOTTOM. LSD 4,800.30 FT NGVD OF 1929. RECORDER INSTALLED OCT. 15, 1952. RECORDER REMOVED NOV. 2, 1970. RECORDER INSTALLED SEPT. 11, 1975. MP NO. 1 TOP OF 6 1/4-IN CASING NORTHEAST SIDE, 1.83 FT ABOVE LSD (SINCE SEPT. 24, 1951).

RECORDS AVAILABLE 1951, 1952 - 1970, 1971 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 255.57 FEET BELOW LAND SURFACE DATUM MAY 06, 1984.

LOWEST WATER LEVEL 277.59 FEET BELOW LAND SURFACE DATUM APR 06, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	269.73	DEC 31, 1983	264.91		APR 10, 1984	258.80	JUL 05, 1984	266.87
10	269.70	JAN 05, 1984	265.61		15	257.38	10	267.28
15	269.73	10	256.59		19	256.44	15	267.62
20	269.72	14	267.23		20	256.53	20	267.89
25	269.85	25	268.22	S	25	256.35	25	267.93
28	269.92	31	258.67		30	256.13	31	267.77
31	269.84	FEB 05	258.89		MAY 05	255.59	AUG 05	267.37
NOV 05	269.79	10	268.81		06	255.57	10	266.78
10	269.54	15	268.48		10	255.74	15	266.13
15	269.25	20	268.02		15	256.66	20	265.51
20	268.88	25	267.60		20	257.73	25	265.17
25	268.43	29	267.52		25	258.49	31	264.75
30	267.90	MAR 05	267.34		31	260.00	SEP 05	264.32
DEC 05	266.82	10	267.02		JUN 05	261.22	10	263.53
10	265.58	15	266.15		10	262.28	15	262.93
15	264.68	20	265.41		15	263.33	20	262.55
20	263.75	25	264.39		20	264.37	25	262.32
22	263.45	31	262.59		25	265.42	30	262.15
29	264.11	APR 05	260.84		30	266.27		

WELL 05N 31E 28CCC1 SITE NUMBER 434334112463101

DRILLED INDUSTRIAL WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12-10-8 IN, DEPTH 716.7 FT, 12-IN CASING 0-339.7 FT, 10-IN CASING 320-376.6 FT, 8-IN CASING 313.1-535 FT. LSD 4,795.03 FT NGVD OF 1929. RECORDER INSTALLED JAN. 13, 1965. RECORDER REMOVED SEPT. 11, 1975. MP NO. 2 TOP OF 1 1/4-IN PIPE COUPLING, 2.20 FT ABOVE LSD (SINCE OCT. 1, 1975).

RECORDS AVAILABLE 1956 - 1964, 1965 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 256.57 FEET BELOW LAND SURFACE DATUM FEB 01, 1972.

LOWEST WATER LEVEL 272.63 FEET BELOW LAND SURFACE DATUM SEP 22, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 26, 1983	261.87	S	FEB 29, 1984	260.11	S	MAY 22, 1984	261.18	S	AUG 31, 1984	264.24	S
DEC 22	259.77	S	MAR 28	260.47	S	JUN 21	262.98	S	SEP 25	264.82	S
JAN 26, 1984	260.04	S	APR 26	260.40	S	JUL 12	263.84	S			

WELL 04N 26E 21ABD1 SITE NUMBER 434001113215201

FORMERLY SITE ID NO. 434004113220101. DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8-6-4 IN, DEPTH 759.6 FT, 8-IN CASING 0-431 FT, 6-IN CASING 0-650 FT, 4-IN CASING 633-760 FT, PERFORATED 656-661 FT, 685-690 FT, JOHNSON NEOPRENE PACKER SET AT 633.5 FT. LSD ABOUT 5,390 FT NGVD OF 1929. MP NO. 2 TOP OF 8-IN CASING NORTH SIDE, 2.30 FT ABOVE LSD (SINCE DEC. 6, 1977).

RECORDS AVAILABLE 1969 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 578.97 FEET BELOW LAND SURFACE DATUM JUN 04, 1984.

LOWEST WATER LEVEL 592.18 FEET BELOW LAND SURFACE DATUM OCT 29, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	582.62	V	JAN 16, 1984	581.95	V	MAY 09, 1984	579.52	V	AUG 06, 1984	579.53	V
23	583.27	S	FEB 06	582.11	V	10	580.40	V	SEP 18	579.87	V
29	582.48	V	MAR 05	581.43	V	JUN 04	578.97	V			
DEC 12	583.82	S	13	579.96	V	JUL 16	579.60	V			
JAN 11, 1984	581.50	V	APR 02	581.00	V	25	579.62	V			

WELL 04N 26E 26DC01 SITE NUMBER 433819113191601

FORMERLY SITE ID NO. 433825113192301. DRILLED UNUSED WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 IN, DEPTH 143.0 FT, CASED TO 143 FT. LSD 5,332.25 FT NGVD OF 1929. MAY 22, 1974, WELL HAD FILLED IN TO A DEPTH OF 136.5 FT. MP NO. 1 TOP OF 8-IN CASING WEST SIDE, 1.10 FT ABOVE LSD (SINCE AUG. 24, 1949).

RECORDS AVAILABLE 1949 - 1953, 1954 - 1971, 1972 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 36.73 FEET BELOW LAND SURFACE DATUM AUG 23, 1984.

LOWEST WATER LEVEL 48.62 FEET BELOW LAND SURFACE DATUM MAR 17, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 08, 1983	37.14	S	JAN 11, 1984	37.92	S	APR 02, 1984	38.11	S	JUL 25, 1984	37.70	S
17	37.06	S	16	37.86	S	MAY 09	39.17	S	AUG 06	36.75	S
23	37.20	S	FEB 06	38.24	S	10	38.14	S	23	36.73	S
28	37.32	S	MAR 05	38.44	S	JUN 04	39.84	S	SEP 18	37.21	S
DEC 12	37.39	S	13	38.34	S	JUL 16	42.14	S			

WELL 04N 26E 32CBD1 SITE NUMBER 433748113234001

FORMERLY SITE ID NO. 433730113234301. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 253.0 FT, CASED TO 205.5 FT. LSD 5,371.22 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED APR. 30, 1965. RECORDER REMOVED SEPT. 27, 1971. RECORDER INSTALLED JULY 21, 1977. MP NO. 1 TOP OF CASING NORTHEAST SIDE, 1.50 FT ABOVE LSD (SINCE APR. 30, 1965).

RECORDS AVAILABLE 1958, 1960 - 1964, 1965 - 1971, 1972 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 194.80 FEET BELOW LAND SURFACE DATUM OCT 25, 1983.

LOWEST WATER LEVEL 208.72 FEET BELOW LAND SURFACE DATUM APR 17, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	195.26		JAN 02, 1984	196.77	APR 05, 1984	195.62	JUL 05, 1984	196.26
10	195.24		06	196.56	10	195.53	10	196.27
15	195.30		10	196.23	15	196.14	15	196.28
20	195.23		15	196.17	20	195.85	20	196.02
25	194.80		20	196.20	25	195.66	25	196.10
27	195.19		25	195.76	30	196.25	31	195.83
28	195.11		31	195.90	MAY 05	196.09	AUG 05	195.66
NOV 01	195.23	S	FEB 05	195.82	10	196.29	10	195.63
08	193.41	S	10	195.31	15	196.18	15	195.62
10	195.54		15	195.77	20	196.38	20	195.47
15	195.90		20	195.89	25	196.58	25	195.48
20	195.28		25	195.47	28	196.92	31	195.23
25	195.62		29	195.62	31	196.46	SEP 05	195.38
DEC 01	196.03		MAR 05	195.69	JUN 05	196.32	10	195.13
05	196.22		10	195.68	10	196.42	15	195.35
10	196.03		15	195.45	15	196.57	20	195.05
15	196.15		20	195.71	20	196.38	25	195.50
20	195.98		25	195.62	25	196.47	30	195.17
31	196.36		31	195.57	30	196.39		

WELL 04N 29E 09DCD1 SITE NUMBER 434055112593901

FORMERLY SITE ID NO. 434056113000101. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 463 FT, 6-IN CASING 0-440 FT, 5-IN CASING 430-463 FT, PERFORATED 410-430 FT, OPEN BOTTOM. LSD 4,884.25 FT NGVD OF 1929. RECORDER INSTALLED OCT. 16, 1952. RECORDER REMOVED NOV. 16 1954. MP NO. 3 TOP OF 6 1/4-IN CASING NORTHEAST SIDE, 1.17 FT ABOVE LSD (SINCE JUNE 9, 1952).

RECORDS AVAILABLE 1952 - 1954, 1955 - 1959, 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 382.76 FEET BELOW LAND SURFACE DATUM FEB 10, 1972.

LOWEST WATER LEVEL 401.06 FEET BELOW LAND SURFACE DATUM OCT 01, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 27, 1983	395.34	S	JAN 31, 1984	393.81	S	APR 26, 1984	392.48	S	JUL 20, 1984	390.67	S
NOV 25	394.90	S	FEB 27	393.64	S	MAY 23	391.41	S	AUG 28	390.98	S
DEC 28	394.41	S	MAR 20	393.38	S	JUN 22	390.80	S	SEP 24	390.77	S

WELL 04N 30E 07ADB1 SITE NUMBER 434126112550701

FORMERLY SITE ID NO. 434128112551201. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12 TO 10 IN, DEPTH 692 FT, 12-IN CASING 0-386 FT, 10-IN CASING 335-587 FT, CONCRETE SEAL 385-387 FT. LSD 4,820.50 FT NGVD OF 1929. WELL CAVED TO A DEPTH OF 563 FT. RECORDER INSTALLED MAR. 17, 1951. RECORDER REMOVED JULY 23, 1956. RECORDER INSTALLED JULY 10, 1969. MP NO. 6 TOP OF 12-IN CASING NORTHEAST SIDE, 1.78 FT ABOVE LSD (SINCE JUNE 5, 1952).

RECORDS AVAILABLE 1950, 1951 - 1956, 1957 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 308.24 FEET BELOW LAND SURFACE DATUM JAN 11, 1972.

LOWEST WATER LEVEL 330.27 FEET BELOW LAND SURFACE DATUM JUL 24, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	323.16	JAN 17, 1984	321.00		APR 24, 1984	319.03	JUL 10, 1984	317.68
10	323.07	25	320.88	S	25	319.09	15	317.83
15	322.98	31	320.95		30	318.90	20	317.86
20	322.87	FEB 05	321.00		MAY 05	318.53	25	318.05
25	322.92	10	320.83		10	318.24	31	318.12
31	322.66	15	321.00		15	317.86	AUG 05	318.17
NOV 03	322.73	19	321.07		20	317.65	10	318.26
05	322.61	29	320.89		21	317.58	15	318.34
10	322.54	MAR 05	320.89		25	317.56	20	318.35
15	322.56	10	320.85		31	317.35	25	318.37
20	322.22	15	320.69		JUN 05	317.17	31	318.25
25	322.18	20	320.70		06	317.08	SEP 05	318.28
29	322.20	25	320.55		10	317.15	10	318.16
DEC 29	321.41	31	320.36		15	317.23	15	318.14
31	321.35	APR 05	320.19		20	317.24	20	317.95
JAN 05, 1984	321.17	10	319.91		25	317.33	25	318.04
10	321.05	15	319.86		30	317.42	30	317.82
15	321.05	20	319.51		JUL 05	317.52		

WELL 04N 30E 22BDD1 SITE NUMBER 433937112515401

FORMERLY SITE ID NO. 433938112520001. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 498.0 FT, 6-IN CASING 0-405.9 FT, 5-IN CASING 365.2-495.8 FT, PERFORATED 437.8-444.8 FT. LSD 4,834.73 FT NGVD OF 1929. RECORDER INSTALLED JUNE 6, 1952. RECORDER REMOVED SEPT. 30, 1954. MP NO. 4 TOP OF 6 1/4-IN CASING WITH FLANGE NORTHEAST SIDE, 2.31 FT ABOVE LSD (SINCE JUNE 5, 1952).

RECORDS AVAILABLE 1951, 1952 - 1954, 1955 - 1959, 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 342.25 FEET BELOW LAND SURFACE DATUM APR 24, 1972.

LOWEST WATER LEVEL 355.43 FEET BELOW LAND SURFACE DATUM NOV 02, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 26, 1983	352.17	S	JAN 26, 1984	351.13	S	APR 26, 1984	349.59	S	JUL 12, 1984	349.03	S
DEC 02	351.43	S	FEB 24	350.23	S	MAY 23	349.59	S	AUG 31	348.43	S
21	351.04	S	MAR 27	350.21	S	JUN 21	349.35	S	SEP 20	348.09	S

WELL 04N 31E 16ADC1 SITE NUMBER 434031112453701

FORMERLY SITE ID NO. 434031112452701, WELL NO. 04N 31E 16ADD1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 475.0 FT, 6-IN CASING 0-403.7 FT, 5-IN CASING 395-487 FT, PERFORATED 452-487.1 FT. LSD 4,899.89 FT NGVD OF 1929. SEPT. 12, 1952, WELL WAS DEEPENED AND RECASED, DEPTH 620.0 FT, 4-IN CASING 0-532.0 FT. RECORDER INSTALLED MAR. 17, 1953. RECORDER REMOVED APR. 7, 1953. MP NO. 2 CHISELED X IN TOP OF 4-IN CASING NORTHEAST SIDE, 1.84 FT ABOVE LSD (SINCE SEPT. 18, 1952).

RECORDS AVAILABLE 1950 - 1952, 1953, 1954 - 1959, 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 406.61 FEET BELOW LAND SURFACE DATUM FEB 27, 1973.

LOWEST WATER LEVEL 415.06 FEET BELOW LAND SURFACE DATUM SEP 22, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 26, 1983	412.55	S	JAN 24, 1984	410.81	S	APR 26, 1984	410.00	S	JUL 12, 1984	410.32	S
DEC 02	411.47	S	FEB 29	410.31	S	MAY 24	410.19	S	AUG 31	410.50	S
22	411.06	S	MAR 27	410.30	S	JUN 25	410.40	S	SEP 25	410.62	S

WELL 03N 29E 14ADD1 SITE NUMBER 433520112572601

FORMERLY SITE ID NO. 433523112572601, WELL NO. 03N 29E 14ADB1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 588.0 FT, CASED TO 590 FT, PERFORATED 447-588 FT. LSD 4,917.64 FT NGVD OF 1929. RECORDER INSTALLED JAN. 7, 1950. RECORDER REMOVED JULY 7, 1960. RECORDER INSTALLED JULY 11, 1963. MP NO. 2 TOP OF 8-IN CASING AT PAINTED SPOT NORTH SIDE, 1.00 FT ABOVE LSD (SINCE DEC. 18, 1949).

RECORDS AVAILABLE 1949, 1950 - 1960, 1962, 1963 TC CURRENT YEAR.

HIGHEST WATER LEVEL 447.52 FEET BELOW LAND SURFACE DATUM MAR 01, 1953.

LOWEST WATER LEVEL 459.42 FEET BELOW LAND SURFACE DATUM OCT 31, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	455.65		JAN 15, 1984	454.71	APR 20, 1984	453.95	JUL 20, 1984	452.36
10	455.58		20	454.67	24	453.58	25	452.89
15	455.56		25	454.34	25	453.65	31	452.80
20	455.55		31	454.54	30	453.85	AUG 01	452.74
24	455.70		FEB 05	454.38	MAY 05	453.72	05	452.72
25	455.67		10	454.31	10	453.68	10	452.70
31	455.42		14	454.40	15	453.57	15	452.72
NOV 03	455.35		20	454.59	20	453.49	20	452.67
07	455.19		25	454.30	25	453.52	25	452.70
09	455.41		29	454.33	31	453.38	31	452.51
10	455.32		MAR 05	454.41	JUN 05	453.16	SEP 05	452.63
15	455.38		10	454.37	10	453.17	10	452.47
20	454.90		15	454.11	15	453.22	15	452.54
25	454.94		20	454.24	20	453.10	20	452.39
30	455.10		25	454.20	25	453.15	25	452.59
DEC 04	454.94		31	454.06	30	453.10	30	452.29
31	454.90	S	APR 05	454.07	JUL 05	452.99		
JAN 05, 1984	454.84		10	453.87	10	453.03		
10	454.82		15	454.14	15	452.99		

BUTTE COUNTY--CONTINUED

WELL 03N 29E 19CBB1 SITE NUMBER 433422113031701

FORMERLY SITE ID NO. 433423113031901. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 657 FT, CASED TO 657 FT, PERFORATED 619-633 FT, 644-657 FT. LSD 5,049.20 FT NGVD OF 1929. RECORDER INSTALLED AUG. 18, 1955. RECORDER REMOVED MAR. 13, 1956. RECORDER INSTALLED JAN. 31, 1961. RECORDER REMOVED JAN. 2, 1962. MP NO. 2 TOP OF 6-IN CASING NORTHEAST SIDE, 1.69 FT ABOVE LSD (SINCE JUNE 21, 1952).

RECORDS AVAILABLE 1951 - 1954, 1955 - 1956, 1957 - 1960, 1961, 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 510.64 FEET BELOW LAND SURFACE DATUM MAR 22, 1965.

LOWEST WATER LEVEL 610.14 FEET BELOW LAND SURFACE DATUM DEC 11, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 05, 1983	604.72	S	JAN 23, 1984	603.40	S	APR 26, 1984	601.87	S	JUL 09, 1984	600.94	S
DEC 01	604.07	S	FEB 27	603.00	S	MAY 23	601.90	S	AUG 27	600.36	S
27	603.61	S	MAR 21	602.13	S	JUN 22	601.65	S	SEP 24	600.29	S

WELL 03N 30E 12CDD1 SITE NUMBER 433543112493801

FORMERLY SITE ID NO. 433542112494101. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 500 FT, CASED TO 500 FT, PERFORATED 475-497 FT. LSD 4,938.73 FT NGVD OF 1929. APR. 29, 1969, SURFACE WATER ENTERED WELL AT LSD AND PLUGGED WELL TO AQUIFER. JAN. 22, 1973, WELL HAD FILLED IN TO A DEPTH OF 452.8 FT. JULY 31, 1975, WELL WAS CLEANED AND SURGED TO A DEPTH OF 500 FT. DEC. 1, 1975, WELL HAD FILLED IN TO A DEPTH OF 494 FT. RECORDER INSTALLED OCT. 24, 1951. RECORDER REMOVED NOV. 29, 1951. MP NO. 3 TOP OF 6 1/4-IN CASING NORTHEAST SIDE, 1.37 FT ABOVE LSD (SINCE OCT. 29, 1952).

RECORDS AVAILABLE 1950, 1951, 1952 - 1953, 1954 - 1959, 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 460.77 FEET BELOW LAND SURFACE DATUM APR 22, 1976.

LOWEST WATER LEVEL 467.79 FEET BELOW LAND SURFACE DATUM NOV 23, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 11, 1983	466.16	S	JAN 24, 1984	465.23	S	APR 24, 1984	463.76	S	JUL 30, 1984	463.61	S
NOV 22	465.61	S	FEB 24	465.61	S	MAY 25	463.92	S	AUG 20	463.29	S
DEC 23	465.28	S	MAR 23	464.45	S	JUN 25	463.79	S	SEP 21	462.97	S

WELL 03N 30E 31AAD1 SITE NUMBER 433253112545901

FORMERLY SITE ID NO. 433253112550301. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 676 FT, 8-IN CASING 0-406 FT, 6-IN CASING 399-676 FT, PERFORATED 471-481 FT, 512-553 FT. LSD 4,915.85 FT NGVD OF 1929. RECORDER INSTALLED OCT. 17, 1952. RECORDER REMOVED AUG. 4, 1955. RECORDER INSTALLED JUNE 30, 1960. RECORDER REMOVED OCT. 10, 1961. MP NO. 2 TOP OF 8-IN CASING NORTHEAST SIDE, 1.73 FT ABOVE LSD (SINCE DEC. 27, 1951).

RECORDS AVAILABLE 1951, 1952 - 1955, 1956 - 1959, 1960 - 1961, 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 453.14 FEET BELOW LAND SURFACE DATUM APR 27, 1953.

LOWEST WATER LEVEL 461.61 FEET BELOW LAND SURFACE DATUM OCT 05, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 11, 1983	459.46	S	JAN 24, 1984	458.44	S	APR 11, 1984	457.61	S	JUL 30, 1984	456.99	S
NOV 22	458.75	S	FEB 24	457.82	S	MAY 24	457.28	S	AUG 20	456.64	S
DEC 23	458.47	S	MAR 23	457.85	S	JUN 25	457.18	S	SEP 21	457.17	S

WELL 03N 32E 29DDC1 SITE NUMBER 433320112432301

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN (15 TO 13 CM), DEPTH 706 FT, 6-IN CASING 0-434 FT, 5-IN CASING 427-704 FT, PERFORATED 675-696 FT. LSD 5,125.87 FT NGVD OF 1929. RECORDER INSTALLED MAY 14, 1950. RECORDER REMOVED OCT. 4, 1954. RECORDER INSTALLED MAY 24, 1961. RECORDER REMOVED JAN. 4, 1962. MP NO. 3 PAINTED CROSS TOP OF 6 1/4-IN CASING NORTH SIDE, 1.90 FT ABOVE LSD (SINCE MAY 10, 1950).

RECORDS AVAILABLE 1950 - 1954, 1955 - 1960, 1961 - 1962, 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 651.10 FEET BELOW LAND SURFACE DATUM JAN 07, 1950.

LOWEST WATER LEVEL 659.51 FEET BELOW LAND SURFACE DATUM SEP 25, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 19, 1983	656.83	S	JAN 23, 1984	655.14	S	APR 22, 1984	653.27	S	JUL 23, 1984	654.33	S
NOV 21	655.97	S	FEB 28	654.76	S	MAY 20	654.41	S	AUG 30	654.57	S
DEC 27	656.83	S	MAR 27	654.57	S	JUN 22	654.54	S	SEP 27	654.48	S

WELL 02N 26E 22DDA1 SITE NUMBER 432854113201001

FORMERLY SITE ID NO. 432853113201201. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 719.4 FT, CASED TO 719.4 FT, PERFORATED 670-675 FT, 712-717 FT. ORIGINAL WELL WAS DRILLED TO A DEPTH OF 1,053 FT, CASED TO 728 FT. SEPT. 10, 1971, INSTALLED 6-IN INFLATABLE PACKER 719.4-721.8 FT WELDED TO 2-IN PIPE, INSTALLED 1-IN MEASURING PIPE 0-719.4 FT, PERFORATED 698.4-719.4 FT. LSD 5,361.81 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MP NO. 1 TOP OF 1-IN PIPE COUPLING EAST SIDE, 2.09 FT ABOVE LSD (SINCE SEPT. 10, 1971).

RECORDS AVAILABLE 1971 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 658.81 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.

LOWEST WATER LEVEL 663.74 FEET BELOW LAND SURFACE DATUM NOV 15, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 27, 1984	659.08	S	SEP 17, 1984	658.81	S

WELL 02N 26E 22DDA2 SITE NUMBER 432854113201002

FORMERLY SITE ID NO. 432853113201202. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 1,053 FT, CASED TO 728 FT. SEPT. 10, 1971, INSTALLED 6-IN INFLATABLE PACKER 719.4-721.8 FT WELDED TO 2-IN PIPE TO SEAL OFF THE PERCHED WATER ZONE. 2-IN PIPE PERFORATED 1,030-1,051 FT. LSD 5,361.81 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MP NO. 2 TOP OF 2-IN PIPE COUPLING, 2.12 FT ABOVE LSD (SINCE SEPT. 10, 1971).

RECORDS AVAILABLE 1970 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 979.07 FEET BELOW LAND SURFACE DATUM MAY 24, 1972.

LOWEST WATER LEVEL 983.55 FEET BELOW LAND SURFACE DATUM DEC 17, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 05, 1984	980.05	S	APR 27, 1984	979.85	S	SEP 17, 1984	979.13	S

BUTTE COUNTY--CONTINUED

WELL 02N 27E 02DDC1 SITE NUMBER 433121113115801

FORMERLY SITE ID NO. 433122113120301. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 812 FT, CASED TO 812 FT, PERFORATED 782-812 FT, OPEN BOTTOM. LSD 5,195.44 FT NGVD OF 1929. RECORDER INSTALLED JULY 18, 1951. RECORDER REMOVED OCT. 21, 1953. RECORDER INSTALLED APR. 6, 1966. RECORDER REMOVED SEPT. 14, 1966. RECORDER INSTALLED JULY 14, 1967. RECORDER REMOVED DEC. 13, 1967. MP NO. 2 CHISELED CROSS IN TOP OF 6-IN CASING NORTH SIDE, 1.88 FT ABOVE LSD (SINCE MAY 10, 1951).

RECORDS AVAILABLE 1950, 1951 - 1953, 1954 - 1960, 1964 - 1965, 1966 - 1967, 1968 TO CURRENT YEAR.

HIGHEST WATER LEVEL 750.70 FEET BELOW LAND SURFACE DATUM DEC 27, 1950.

LOWEST WATER LEVEL 765.65 FEET BELOW LAND SURFACE DATUM MAY 26, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
DEC 02, 1983	757.75	S	FEB 21, 1984	756.19	S	MAY 30, 1984	754.97	S	AUG 27, 1984	753.47	S
29	756.58	S	MAR 20	756.71	S	JUN 22	753.91	S	SEP 24	753.98	S
JAN 27, 1984	756.31	S	APR 27	756.05	S	JUL 24	752.89	S			

WELL 02N 28E 13ADD1 SITE NUMBER 433005113032801

FORMERLY SITE ID NO. 433006113033201, WELL NO. 02N 28E 13AD 1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 646 FT CASED TO 576 FT. LSD 5,028.91 FT NGVD OF 1929. MP NO. 3 TOP OF 1-IN PIPE COUPLING, 2.68 FT ABOVE LSD (SINCE MAR. 1, 1976).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 580.03 FEET BELOW LAND SURFACE DATUM AUG 27, 1984.

LOWEST WATER LEVEL 601.00 FEET BELOW LAND SURFACE DATUM OCT 06, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
DEC 01, 1983	584.44	S	JAN 26, 1984	583.54	S	APR 26, 1984	581.17	S	JUL 16, 1984	580.64	S
20	584.15	S	FEB 22	582.59	S	MAY 25	581.52	S	AUG 27	580.03	S
JAN 10, 1984	583.85	S	MAR 26	581.50	S	JUN 20	580.91	S	SEP 28	581.09	S

WELL 02N 28E 35AAC1 SITE NUMBER 432740113044501

FORMERLY SITE ID NO. 432733113043901, WELL NO. 02N 28E 35AD01, 02N 28E 35ADA1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 654.1 FT, 8-IN CASING 0-241 FT, 6-IN CASING 235-652 FT, PERFORATED 618-648 FT, LEAD SEAL. LSD 5,031.87 FT NGVD OF 1929. RECORDER INSTALLED NOV. 26, 1952. RECORDER REMOVED AUG. 2, 1956. RECORDER INSTALLED JUNE 29, 1965. RECORDER REMOVED MAY 15, 1968. RECORDER INSTALLED JUNE 2, 1971. MP NO. 6 TOP OF 8-IN CASING, 2.31 FT ABOVE LSD (SINCE JUNE 2, 1971).

RECORDS AVAILABLE 1951, 1952 - 1956, 1957 - 1964, 1965 - 1968, 1969 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 594.22 FEET BELOW LAND SURFACE DATUM JUL 08, 1984.

LOWEST WATER LEVEL 607.45 FEET BELOW LAND SURFACE DATUM SEP 07, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	602.15	DEC 29, 1983	599.42		APR 05, 1984	599.80	JUL 08, 1984	594.22
10	602.10	31	599.51		10	599.43	10	594.49
11	602.20	JAN 05, 1984	599.62		20	599.49	15	594.96
15	602.04	10	599.67		25	599.26	20	595.44
20	601.92	15	599.80		30	599.31	25	596.07
25	602.05	20	599.90		MAY 05	598.93	31	596.57
31	601.83	25	599.70		10	598.75	AUG 05	596.72
NOV 05	601.80	31	599.94		15	598.26	10	596.48
10	601.56	FEB 05	600.07		20	597.88	15	596.20
15	601.51	10	599.82		25	597.47	20	596.41
20	600.70	15	600.15		31	596.66	25	596.75
25	600.33	20	600.30		JUN 05	596.10	31	596.94
30	600.04	21	599.98	S	10	595.89	SEP 05	597.09
DEC 05	599.78	MAR 14	600.18	S	15	595.58	10	596.90
10	599.48	15	600.22		20	595.09	15	596.85
15	599.32	20	600.29		25	595.15	20	596.58
19	598.86	25	600.18		30	594.70	25	596.98
20	599.00	31	600.01		JUL 05	594.51	30	596.99

WELL 01N 29E 30BBD1 SITE NUMBER 432336113064201

FORMERLY SITE ID NO. 432339113064501. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 704 FT, CASED TO 704 FT, PERFORATED 673-704 FT, OPEN BOTTOM. LSD 5,066.89 FT NGVD OF 1929. RECORDER INSTALLED JULY 30, 1965. RECORDER REMOVED JULY 22, 1966. MP NO. 2 TOP OF 6-IN CASING NORTHEAST SIDE, 2.11 FT ABOVE LSD (SINCE OCT. 15, 1950).

RECORDS AVAILABLE 1950 - 1951, 1952 - 1964, 1965 - 1966, 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 645.80 FEET BELOW LAND SURFACE DATUM JUL 20, 1984.

LOWEST WATER LEVEL 652.47 FEET BELOW LAND SURFACE DATUM AUG 26, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 26, 1983	648.31	S	FEB 23, 1984	647.56	S	MAY 29, 1984	646.91	S	AUG 27, 1984	645.91	S
DEC 29	647.68	S	MAR 21	647.57	S	JUN 21	646.46	S	SEP 24	645.85	S
JAN 31, 1984	647.46	S	APR 16	647.42	S	JUL 20	645.80	S			

WELL 01S 27E 14DCC1 SITE NUMBER 431946113161401

FORMERLY SITE ID NO. 431948113161801. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, DEPTH 1,041 FT, CASED TO 1,031 FT, PERFORATED 1,011-1,031 FT. LSD 5,158.86 FT NGVD OF 1929. RECORDER INSTALLED JULY 23, 1971. RECORDER REMOVED MAY 4, 1972. MP NO. 3 TOP OF 2-IN NIPPLE NORTHEAST SIDE, 1.59 FT ABOVE LSD (SINCE MAY 4, 1972).

RECORDS AVAILABLE 1970, 1971 - 1972, 1973 - 1981, 1982 TO CURRENT YEAR.

HIGHEST WATER LEVEL 990.00 FEET BELOW LAND SURFACE DATUM APR 27, 1973.

LOWEST WATER LEVEL 1001.55 FEET BELOW LAND SURFACE DATUM SEP 14, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 30, 1984	996.98	S	SEP 17, 1984	995.43	S

CAMAS COUNTY

WELL 01N 14E 36DAD1 SITE NUMBER 432228114421601

DRILLED UNUSED WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 IN, REPORTED DEPTH 188 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 5,106 FT NGVD OF 1929. MP NO. 1 TOP OF CASING SOUTH SIDE, 0.70 FT ABOVE LSD (SINCE MAR. 24, 1977).

RECORDS AVAILABLE 1977 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.18 FEET BELOW LAND SURFACE DATUM MAY 07, 1984.

LOWEST WATER LEVEL 35.30 FEET BELOW LAND SURFACE DATUM JUL 20, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	20.70	S	MAR 12, 1984	17.38	S	JUL 23, 1984	22.70	S	SEP 16, 1984	20.78	S
JAN 10, 1984	18.65	S	MAY 07	15.18	S						

WELL 01S 12E 13BAA1 SITE NUMBER 432033114584701

DRILLED UNUSED ARTESIAN WELL IN SAND OF QUATERNARY AGE, DIAM 3 IN, REPORTED DEPTH 435 FT, CASED TO 135 FT. LSD 5,090.70 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MAR. 20, 1972, WELL HAD FILLED IN TO A DEPTH OF 218.2 FT. MP NO. 1 TOP OF CASING EAST SIDE, 2.30 FT ABOVE LSD (SINCE SEPT. 12, 1957).

RECORDS AVAILABLE 1957 - 1968, 1969 - 1976, 1977 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.60 FEET BELOW LAND SURFACE DATUM APR 26, 1965.

LOWEST WATER LEVEL 13.54 FEET BELOW LAND SURFACE DATUM OCT 02, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	8.37	S	MAY 07, 1984	4.61	S	JUL 23, 1984	5.44	S	SEP 16, 1984	7.43	S
JAN 09, 1984	7.46	S									

WELL 01S 13E 16BBB1 SITE NUMBER 432032114554201

DRIVEN OBSERVATION WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 13.0 FT, CASED TO 13.0 FT, WELL POINT 10.5-13.0 FT. LSD ABOUT 5,085 FT NGVD OF 1929. MP NO. 1 TOP OF 1 1/4-IN CASING, 2.30 FT ABOVE LSD (SINCE MAR. 16, 1978).

RECORDS AVAILABLE 1978 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.83 FEET BELOW LAND SURFACE DATUM MAY 09, 1983.

LOWEST WATER LEVEL 6.50 FEET BELOW LAND SURFACE DATUM OCT 23, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	4.93	S	MAR 12, 1984	3.69	S	JUL 23, 1984	3.50	S	SEP 16, 1984	4.44	S
JAN 09, 1984	4.25	S	MAY 07	3.10	S						

WELL 01S 14E 07DD01 SITE NUMBER 432035114495101

DUG UNUSED WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 10.1 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 5,057 FT NGVD OF 1929. MAR. 15, 1978, INSTALLED WELL POINT, DIAM 1 1/4 IN, DEPTH 14.2 FT, CASED TO 11.7 FT, WELL POINT 11.7-14.2 FT, SCREEN 40 MESH. MP NO. 3 TOP OF 1 1/4-IN CASING, 4.30 FT ABOVE LSD (SINCE MAR. 15, 1978).

RECORDS AVAILABLE 1957, 1977 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.85 FEET BELOW LAND SURFACE DATUM APR 30, 1982.

LOWEST WATER LEVEL WELL DRY JUL 14, 1977; AUG 16, 1977; SEP 09, 1977; SEP 20, 1977; SEP 30, 1977; OCT 14, 1977; NOV 10, 1977; DEC 16, 1977; JAN 16, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	7.60	S	MAR 12, 1984	7.55	S	JUL 23, 1984	5.53	S	SEP 16, 1984	7.00	S
JAN 09, 1984	7.63	S	MAY 07	2.20	S						

WELL 01S 14E 08DDB1 SITE NUMBER 432043114485001

DRILLED STOCK ARTESIAN WELL IN SAND OF QUATERNARY AGE, DIAM 3 TO 2 IN, REPORTED DEPTH 320 FT, CASED TO 140 FT. LSD ABOUT 5,060 FT NGVD OF 1929. MP NO. 2 TOP OF 2-IN INNER CASING NORTH SIDE AT LSD (SINCE JULY 14, 1977).

RECORDS AVAILABLE 1957 - 1958, 1959 - 1968, 1969 - 1976, 1977 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 18.72 FEET ABOVE LAND SURFACE DATUM MAY 15, 1958.

LOWEST WATER LEVEL 19.43 FEET BELOW LAND SURFACE DATUM JUL 24, 1979.

WATER LEVELS IN FEET ABOVE OR BELOW(-) LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	-0.65	S	MAR 12, 1984	6.05 E	M	JUL 23, 1984	-2.15	S	SEP 16, 1984	-1.01	S
JAN 09, 1984	3.69 E	S	MAY 07	4.45 E	M						

WELL 01S 14E 24ADA1 SITE NUMBER 431924114435501

DRIVEN OBSERVATION WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 12.2 FT, CASED TO 12.2 FT, WELL POINT 9.0-12.0 FT. LSD ABOUT 5,030 FT NGVD OF 1929. MP NO. 1 TOP OF 1 1/4-IN PIPE, 3.10 FT ABOVE LSD (SINCE MAR. 15, 1978).

RECORDS AVAILABLE 1978 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.30 FEET BELOW LAND SURFACE DATUM APR 30, 1982.

LOWEST WATER LEVEL 8.60 FEET BELOW LAND SURFACE DATUM DEC 18, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	6.64	S	MAR 12, 1984	6.10	S	JUL 23, 1984	4.34	S	SEP 16, 1984	5.98	S
JAN 09, 1984	6.42	S	MAY 07	1.91	S						

WELL 01S 14E 24DAD1 SITE NUMBER 431908114435801

DRILLED DOMESTIC ARTESIAN WELL IN BRUNEAU FORMATION, DIAM 6 IN, REPORTED DEPTH 187 FT, CASED TO 169 FT. LSD ABOUT 5,028 FT NGVD OF 1929. MP NO. 1 TOP OF 6-IN CASING SOUTH SIDE, 0.90 FT ABOVE LSD (SINCE JULY 10, 1976).

RECORDS AVAILABLE 1976 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 30.15 FEET BELOW LAND SURFACE DATUM APR 15, 1977.

LOWEST WATER LEVEL 66.90 FEET BELOW LAND SURFACE DATUM JUL 20, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 14, 1983	35.84 S	MAR 12, 1984	33.50 R S	JUL 23, 1984	46.95 S	SEP 16, 1984	36.83 S
JAN 09, 1984	35.18 S	MAY 07	31.99 S				

WELL 01S 14E 28DDC1 SITE NUMBER 431756114473801

DRILLED IRRIGATION ARTESIAN WELL IN BRUNEAU FORMATION, DIAM 20 IN, DEPTH 212.1 FT, CASED TO 20 FT. LSD ABOUT 5,040 FT NGVD OF 1929. RECORDER INSTALLED DEC. 10, 1976. RECORDER CHANGED TO DIGITAL AUG. 26, 1977. RECORDER REMOVED APR. 17, 1978. MP NO. 2 TOP OF 20-IN CASING EAST SIDE, 1.20 FT ABOVE LSD (SINCE DEC. 10, 1976).

RECORDS AVAILABLE 1976 - 1977, 1978 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 20.10 FEET BELOW LAND SURFACE DATUM MAY 09, 1983.

LOWEST WATER LEVEL 59.89 FEET BELOW LAND SURFACE DATUM AUG 29, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 14, 1983	24.97 S	MAY 07, 1984	20.97 S	JUL 23, 1984	37.08 S	SEP 16, 1984	31.16 S

WELL 01S 15E 16ABA1 SITE NUMBER 432029114404001

DRILLED STOCK ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 2 IN, REPORTED DEPTH 316 FT, CASED TO 316 FT. LSD ABOUT 5,019 FT NGVD OF 1929. MP NO. 1 TOP OF 2-IN GALVANIZED TEE WEST SIDE, 3.40 FT ABOVE LSD (SINCE DEC. 10, 1976).

RECORDS AVAILABLE 1976 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 8.11 FEET ABOVE LAND SURFACE DATUM MAR 10, 1977.

LOWEST WATER LEVEL 6.56 FEET BELOW LAND SURFACE DATUM AUG 25, 1981.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 14, 1983	2.91 E S	MAR 12, 1984	6.15 E M	JUL 23, 1984	5.30 E M	SEP 16, 1984	2.40 E S
JAN 10, 1984	4.76 E S	MAY 07	4.60 E M				

WELL 01S 15E 22AAA1 SITE NUMBER 431938114390901

DUG UNUSED WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 8 IN, DEPTH 39.0 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 4,994 FT NGVD OF 1929. JUNE 19, 1979, WELL HAD FILLED IN TO A DEPTH OF 32.3 FT. MP NO. 1 TOP OF CASING EAST SIDE, 1.40 FT ABOVE LSD (SINCE SEPT. 13, 1957).

RECORDS AVAILABLE 1957, 1961 - 1968, 1969 - 1976, 1977 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.20 FEET ABOVE LAND SURFACE DATUM APR 04, 1974.

LOWEST WATER LEVEL WELL DRY JUL 14, 1978; JUL 24, 1979; JUL 20, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	8.03	S	MAR 12, 1984	5.47	S	JUL 23, 1984	15.34	S	SEP 16, 1984	8.70	S
JAN 10, 1984	6.90	S	MAY 07	4.01	S						

CANYON COUNTY

WELL 06N 05W 30BAB1 SITE NUMBER 435007116591501

DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIAL SAND OF QUATERNARY AGE, DIAM 12 IN, REPORTED DEPTH 169 FT, CASED TO 135 FT. LSD ABOUT 2,225 FT NGVD OF 1929. MP NO. 1 HOLE IN PUMPBASE WEST SIDE, 1.00 FT ABOVE LSD (SINCE JAN. 9, 1967).

RECORDS AVAILABLE 1967 - 1970, 1971 - 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 25.17 FEET BELOW LAND SURFACE DATUM SEP 10, 1968.

LOWEST WATER LEVEL 35.16 FEET BELOW LAND SURFACE DATUM MAY 27, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30, 1984	25.15 V S	SEP 26, 1984	26.71 V S

WELL 05N 05W 18CAC1 SITE NUMBER 434603116590901

DRILLED DOMESTIC WATER-TABLE WELL IN IDAHO GROUP, DIAM 6 IN, REPORTED DEPTH 250 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,225 FT NGVD OF 1929. MP NO. 1 HOLE IN TOP OF 6-IN CASING SOUTH SIDE, 1.50 FT ABOVE LSD (SINCE JAN. 5, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.50 FEET BELOW LAND SURFACE DATUM SEP 07, 1973.

LOWEST WATER LEVEL 13.90 FEET BELOW LAND SURFACE DATUM MAR 20, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30, 1984	11.76 S	SEP 26, 1984	9.01 S

WELL 05N 04W 13BCB1 SITE NUMBER 434627116461801

DRILLED DOMESTIC WATER-TABLE WELL IN IDAHO GROUP, DIAM 4 IN, DEPTH 105 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,395 FT NGVD OF 1929. MP NO. 1 TOP OF 4-IN CASING, 0.50 FT ABOVE LSD (SINCE JAN. 11, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 16.08 FEET BELOW LAND SURFACE DATUM SEP 16, 1969.

LOWEST WATER LEVEL 21.40 FEET BELOW LAND SURFACE DATUM MAR 24, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30, 1984	20.52 S	SEP 26, 1984	19.47 R S

WELL 05N 02W 22CAD1 SITE NUMBER 434514116334501

FORMERLY SITE ID NO. 434601116342601, WELL NO. 05N 02W 22CAA1. DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 12 TO 8 IN, REPORTED DEPTH 450 FT, 12-IN CASING 0-303 FT, 8-IN CASING 284-403 FT, PERFORATED 279-403 FT. LSD ABOUT 2,610 FT NGVD OF 1929. MP NO. 1 TOP OF 1 1/2-IN VERTICAL ACCESS PIPE ON SOUTH SIDE OF PUMP, 1.50 FT ABOVE LSD (SINCE FEB. 21, 1967).

RECORDS AVAILABLE 1967 - 1978, 1979 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 181.10 FEET BELOW LAND SURFACE DATUM MAR 30, 1979.

LOWEST WATER LEVEL 187.83 FEET BELOW LAND SURFACE DATUM JUL 22, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30, 1984	179.58 V S	SEP 26, 1984	182.43 V S

WELL 04N 05W 07DCD1 SITE NUMBER 434132116584001

DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 12 IN, REPORTED DEPTH 100 FT, CASED TO 100 FT, PERFORATED 64-100 FT, GRAVEL PACKED 0-73 FT. LSD ABOUT 2,392 FT NGVD OF 1929. MP NO. 1 BOTTOM EDGE OF SLOPING PIPE ON WEST SIDE OF PUMP, 1.00 FT ABOVE LSD (SINCE MAR. 16, 1971).

RECORDS AVAILABLE 1971 - 1978, 1979 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.79 FEET BELOW LAND SURFACE DATUM SEP 26, 1984.

LOWEST WATER LEVEL 16.48 FEET BELOW LAND SURFACE DATUM MAR 22, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 30, 1984	14.10 S	SEP 26, 1984	10.79 S

WELL 04N 04W 05DDB1 SITE NUMBER 434232116501001

DRILLED STOCK ARTESIAN WELL IN IDAHO GROUP, DIAM 4 IN, DEPTH 178 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,284 FT NGVD OF 1929. MP NO. 3 TOP OF 1 1/4-IN ELBOW, 1.80 FT ABOVE LSD (SINCE SEPT. 22, 1983).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 6.62 FEET ABOVE LAND SURFACE DATUM MAR 16, 1976.

LOWEST WATER LEVEL 3.05 FEET ABOVE LAND SURFACE DATUM JAN 18, 1967.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 29, 1984	3.84 S	SEP 26, 1984	5.27 S

WELL 04N 03W 13BAA1 SITE NUMBER 434128116383601

DRILLED STOCK ARTESIAN WELL IN IDAHO GROUP, DIAM 6 IN, REPORTED DEPTH 185 FT, CASED TO 181 FT. LSD ABOUT 2,370 FT NGVD OF 1929. MP NO. 1 TOP OF 2-IN ADAPTER, 0.80 FT ABOVE LSD (SINCE FEB. 21, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.80 FEET ABOVE LAND SURFACE DATUM JUL 14, 1970.

LOWEST WATER LEVEL 3.98 FEET ABOVE LAND SURFACE DATUM MAR 29, 1984.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 29, 1984	3.98	M	SEP 26, 1984	5.10	M

WELL 03N 04W 11ADA1 SITE NUMBER 433646116461801

DRILLED OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 TO 4 IN, DEPTH 99.4 FT, 6-IN CASING 0-95 FT, 4-IN CASING 94-99.4 FT, PERFORATED 94-99.4 FT. LSD ABOUT 2,497 FT NGVD OF 1929. MAR. 1, 1974, WELL HAD FILLED IN TO A DEPTH OF 91.1 FT. RECORDER INSTALLED AUG. 20, 1953. RECORDER REMOVED OCT. 20, 1954. RECORDER INSTALLED MAY 12, 1967. RECORDER REMOVED NOV. 24, 1971. MP NO. 1 TOP OF CASING, 0.60 FT ABOVE LSD (SINCE MAY 12, 1967).

RECORDS AVAILABLE 1953 - 1954, 1955 - 1966, 1967 - 1971, 1972 - 1975, 1976, 1977 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.39 FEET BELOW LAND SURFACE DATUM AUG 26, 1953.

LOWEST WATER LEVEL 18.30 FEET BELOW LAND SURFACE DATUM MAY 23, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 30, 1984	13.69	S	SEP 25, 1984	10.86	S

WELL 03N 03W 03BCB2 SITE NUMBER 433745116412501

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 TO 4 IN, DEPTH 94.0 FT, 6-IN CASING 0-90.5 FT, PERFORATED 22-25 FT, 4-IN SCREEN 84-94.5 FT. LSD 2,429.23 FT NGVD OF 1929. RECORDER INSTALLED OCT. 19, 1953. RECORDER REMOVED AUG. 20, 1954. MP NO. 3 BOTTOM SOUTH EDGE OF BOARD ON SOUTH SIDE OF WELL PIT COVER AT LSD (SINCE JULY 18, 1979).

RECORDS AVAILABLE 1953 - 1954, 1955 - 1977, 1978 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.13 FEET BELOW LAND SURFACE DATUM SEP 27, 1960.

LOWEST WATER LEVEL 18.14 FEET BELOW LAND SURFACE DATUM MAY 18, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 30, 1984	14.89	S	SEP 25, 1984	14.75	S

WELL 02N 03W 22DDC1 SITE NUMBER 432919116403701

DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 14 IN, REPORTED DEPTH 603 FT, CASED TO 580 FT, PERFORATED 400-580 FT, GRAVEL PACKED 0-580 FT. LSD ABOUT 2,750 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN SLANTED ACCESS PIPE ON SOUTHWEST SIDE OF PUMP, 0.90 FT ABOVE LSD (SINCE APR. 27, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 313.00 FEET BELOW LAND SURFACE DATUM APR 27, 1967.

LOWEST WATER LEVEL 394.60 FEET BELOW LAND SURFACE DATUM JUL 21, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 30, 1984	364.93	S	SEP 27, 1984	378.45	S

WELL 02N 01W 07BBC1 SITE NUMBER 433145116304301

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 4 IN, DEPTH 103.0 FT, 6-IN CASING 0-97 FT, 4-IN CASING 96-103 FT, PERFORATED 97.6-102 FT. LSD 2,547.92 FT NGVD OF 1929. RECORDER INSTALLED AUG. 19, 1953. RECORDER REMOVED NOV. 24, 1971. MP NO. 2 TOP OF NIPPLE IN CASING CAP NORTHEAST SIDE, 0.66 FT ABOVE LSD (SINCE JULY 3, 1978).

RECORDS AVAILABLE 1953 - 1971, 1972 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.80 FEET BELOW LAND SURFACE DATUM OCT 12, 1960.

LOWEST WATER LEVEL 16.09 FEET BELOW LAND SURFACE DATUM JAN 18, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 30, 1984	12.82	S	SEP 27, 1984	9.81	S

WELL 01N 02W 05ADD1 SITE NUMBER 432708116353901

DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 12 TO 10 IN, REPORTED DEPTH 720 FT, 12-IN CASING 0-423 FT, 10-IN CASING 415-625 FT, PERFORATED 415-625 FT. LSD ABOUT 2,675 FT NGVD OF 1929. MP NO. 1 BOTTOM EDGE OF ACCESS HOLE IN SOUTH SIDE OF CASING, 0.40 FT ABOVE LSD (SINCE APR. 18, 1967).

RECORDS AVAILABLE 1967 - 1970, 1971 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 128.70 FEET BELOW LAND SURFACE DATUM MAR 20, 1968.

LOWEST WATER LEVEL 201.76 FEET BELOW LAND SURFACE DATUM AUG 28, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 30, 1984	127.03	V S	SEP 27, 1984	148.69	V S

WELL 01S 02W 14CCC2 SITE NUMBER 431948116330001

DRILLED DOMESTIC AND STOCK WATER-TABLE WELL IN IDAHO GROUP, DIAM 6 IN, REPORTED DEPTH 235 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,390 FT NGVD OF 1929. MP NO. 1 TOP OF 5/8-IN TAP HOLE IN WELL SEAL, 8.00 FT BELOW LSD (SINCE OCT. 26, 1962).

RECORDS AVAILABLE 1962 - 1976, 1977 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 42.42 FEET BELOW LAND SURFACE DATUM SEP 28, 1966.

LOWEST WATER LEVEL 74.87 FEET BELOW LAND SURFACE DATUM MAR 15, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 30, 1984	48.10	S	SEP 27, 1984	44.49	S

WELL 07S 39E 10CC01 SITE NUMBER 424926111532601

DRILLED UNUSED WATER-TABLE WELL IN BASALT OF QUATERNARY AGE, DIAM 15 IN, DEPTH 68.2 FT, CASED TO 6 FT. LSD 5,353.71 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED OCT. 20, 1968. RECORDER REMOVED SEPT. 1, 1971. DIGITAL RECORDER INSTALLED JULY 12, 1977. MP NO. 1 TOP OF CASING NORTHEAST SIDE, 1.20 FT ABOVE LSD (SINCE OCT. 3, 1968).

RECORDS AVAILABLE 1968 - 1971, 1972 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.52 FEET BELOW LAND SURFACE DATUM MAY 08, 1971.

LOWEST WATER LEVEL 40.45 FEET BELOW LAND SURFACE DATUM NOV 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	28.82	DEC 15, 1983	23.37		MAY 15, 1984	11.91	JUL 25, 1984	27.64
10	28.18	20	22.33		20	10.96	31	28.08
15	27.28	25	23.54		24	10.82	AUG 05	28.37
20	27.68	31	23.31		25	11.00	10	28.79
25	28.57	JAN 04, 1984	24.48	S	31	12.97	15	29.18
31	29.62	MAR 27	30.44	S	JUN 05	14.34	20	29.44
NOV 05	29.93	31	28.82		10	15.00	25	29.77
10	30.19	APR 05	25.27		15	16.35	31	29.91
14	30.58	10	21.62		20	19.05	SEP 05	30.24
15	30.57	15	19.83		25	21.44	10	30.29
20	29.62	20	16.80		30	23.23	15	30.54
25	29.12	25	16.10		JUL 05	24.50	20	30.64
30	28.97	30	16.78		10	25.54	25	30.77
DEC 05	25.79	MAY 05	15.63		15	26.55	30	30.87
10	20.62	10	15.13		20	27.47		

WELL 08S 42E 17CAB1 SITE NUMBER 424340111344101

DRILLED UNUSED WATER-TABLE WELL IN FRACTURED BASALT OF QUATERNARY AGE, DIAM 6 IN, DEPTH 119.4 FT, CASED TO 16 FT. LSD 6,095.6 FT NGVD OF 1929. RECORDER INSTALLED NOV. 5, 1967. RECORDER REMOVED MAY 31, 1978. MP NO. 2 TOP OF 6-IN CASING, 0.40 FT ABOVE LSD (SINCE NOV. 5, 1967).

RECORDS AVAILABLE 1967 - 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 92.19 FEET BELOW LAND SURFACE DATUM MAY 06, 1976.

LOWEST WATER LEVEL 105.57 FEET BELOW LAND SURFACE DATUM SEP 11, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 27, 1984	97.62	S	SEP 04, 1984	93.25	S

WELL 09S 40E 13ACB1 SITE NUMBER 423843111433901

DRILLED UNUSED WATER-TABLE WELL IN FRACTURED BASALT OF QUATERNARY AGE, DIAM 8 IN, REPORTED DEPTH 303 FT, CASING DEPTH NOT AVAILABLE. LSD 5,710.89 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 HOLE IN CASING COVER SOUTHWEST SIDE, 0.40 FT ABOVE LSD (SINCE AUG. 29, 1967).

RECORDS AVAILABLE 1967 - 1968, 1969 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 261.56 FEET BELOW LAND SURFACE DATUM JUL 17, 1984.

LOWEST WATER LEVEL 270.16 FEET BELOW LAND SURFACE DATUM NOV 05, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 08, 1983	264.02	S	MAR 27, 1984	268.42	S	JUL 17, 1984	261.56	S	SEP 04, 1984	264.38	S
JAN 05, 1984	267.34	S	MAY 29	265.90	S						

WELL 09S 40E 20BDB1 SITE NUMBER 423753111484501

DRILLED IRRIGATION WATER-TABLE WELL IN FRACTURED BASALT OF QUATERNARY AGE, DIAM 16 IN, DEPTH 243 FT, CASED TO 193 FT. LSD 5,567.81 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF HOLE FOR AIRLINE GAGE INSIDE PUMPBASE NORTH SIDE, 0.90 FT ABOVE LSD (SINCE AUG. 23, 1967).

RECORDS AVAILABLE 1967 - 1968, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 137.45 FEET BELOW LAND SURFACE DATUM SEP 04, 1984.

LOWEST WATER LEVEL 144.97 FEET BELOW LAND SURFACE DATUM MAY 15, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 27, 1983	140.83	S	JAN 05, 1984	141.67	S	MAY 29, 1984	142.22	S	SEP 04, 1984	137.45	S
NOV 08	140.57	S	MAR 27	143.65	S	JUL 17	141.68	P T			

WELL 09S 40E 27BCD1 SITE NUMBER 423652111463001

DRILLED IRRIGATION WATER-TABLE WELL IN BASALT OF QUATERNARY AGE, DIAM 20 IN, DEPTH 370 FT, 20-IN CASING 0-20 FT. LSD ABOUT 5,602 FT NGVD OF 1929. MP NO. 1 TOP OF 1-IN HOLE INSIDE PUMPBASE NORTH SIDE, 1.15 FT ABOVE LSD (SINCE FEB. 6, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 177.71 FEET BELOW LAND SURFACE DATUM SEP 04, 1984.

LOWEST WATER LEVEL 185.51 FEET BELOW LAND SURFACE DATUM MAY 15, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 08, 1983	180.85	S	MAR 27, 1984	183.99	S	JUL 17, 1984	181.35	P S	SEP 04, 1984	177.71	S
JAN 05, 1984	182.03	S	MAY 29	182.57	S						

WELL 10S 40E 05BDD1 SITE NUMBER 423504111482801

DRILLED IRRIGATION WATER-TABLE WELL IN INTERBEDDED BASALT OF QUATERNARY AGE, DIAM 20 TO 16 IN, DEPTH 208 FT, 16-IN CASING 0-208 FT, PERFORATED 90-184 FT. LSD ABOUT 5,500 FT NGVD OF 1929. MP NO. 2 BOTTOM EDGE OF 1 1/2-IN SLANTED VENT PIPE EAST SIDE, 1.05 FT ABOVE LSD (SINCE MAY 15, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 80.19 FEET BELOW LAND SURFACE DATUM SEP 04, 1984.

LOWEST WATER LEVEL 88.72 FEET BELOW LAND SURFACE DATUM SEP 10, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 08, 1983	82.25	S	MAR 27, 1984	85.87	S	JUL 17, 1984	88.60	S	SEP 04, 1984	80.19	S
JAN 05, 1984	84.08	S	MAY 29	86.75	S						

WELL 10S 40E 05BBA1 SITE NUMBER 423433111484701

DRILLED IRRIGATION WATER-TABLE WELL IN INTERBEDDED BASALT OF QUATERNARY AGE, DIAM 16 TO 14 IN, REPORTED DEPTH 300 FT, 16-IN CASING 0-205 FT, 14-IN CASING 190-280 FT, PERFORATED 70-83 FT, 270-280 FT. LSD 5,477.15 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF HOLE INSIDE PUMPBASE SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE JULY 16, 1980).

RECORDS AVAILABLE 1967 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 46.15 FEET BELOW LAND SURFACE DATUM SEP 27, 1972.

LOWEST WATER LEVEL 56.76 FEET BELOW LAND SURFACE DATUM JUN 15, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL	
NOV 08, 1983	52.35	S	MAR 27, 1984	54.85	S	JUL 17, 1984	76.24 P S	SEP 04, 1984	50.48	S
JAN 04, 1984	53.44	S	MAY 29	53.78	S					

WELL 10S 40E 35BDD1 SITE NUMBER 423045111450001

DRILLED IRRIGATION WATER-TABLE WELL IN FRACTURED BASALT OF QUATERNARY AGE, DIAM 18 IN, REPORTED DEPTH 90 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 5,390 FT NGVD OF 1929. MP NO. 1 HOLE IN PUMPBASE WEST SIDE, 1.30 FT ABOVE LSD (SINCE AUG. 16, 1967).

RECORDS AVAILABLE 1967 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 61.93 FEET BELOW LAND SURFACE DATUM SEP 14, 1971.

LOWEST WATER LEVEL 66.79 FEET BELOW LAND SURFACE DATUM MAR 22, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL	
NOV 08, 1983	64.44	S	MAR 27, 1984	65.80	S	JUL 17, 1984	63.95 P S	SEP 04, 1984	62.37	S
JAN 05, 1984	64.82	S	MAY 29	64.40	S					

CASSIA COUNTY

WELL 09S 25E 18DDA1 SITE NUMBER 423811113341201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 150 FT, CASED TO 77 FT, CONCRETE SEAL 70-77 FT, 150-318 FT. LSD 4,206.29 FT NGVD OF 1929. MP NO. 1 TOP OF 6-IN CASING NORTH SIDE, 1.20 FT ABOVE LSD (SINCE DEC. 20, 1975).

RECORDS AVAILABLE 1975, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 13.30 FEET BELOW LAND SURFACE DATUM DEC 20, 1975.

LOWEST WATER LEVEL 30.48 FEET BELOW LAND SURFACE DATUM APR 12, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 06, 1983	24.15	S	JAN 20, 1984	26.59	S	APR 12, 1984	27.90	S	JUL 05, 1984	26.33	S
NOV 07	24.18	S	FEB 27	27.76	S	MAY 09	27.22	S	AUG 14	24.62	S
DEC 21	25.42	S	MAR 13	27.85	S	JUN 19	26.65	S	SEP 11	23.36	S

WELL 09S 25E 23DBA1 SITE NUMBER 423732113293501

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 174.0 FT, 8-IN CASING 0-11 FT, 6-IN CASING 11-172 FT, 30 FT SLOTTED PERFORATIONS BELOW WATER LEVEL. LSD 4,266.97 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. APR. 20, 1982, WELL HAD FILLED IN TO A DEPTH OF 139.3 FT. MEASUREMENTS PRIOR TO MAR. 21, 1972, MADE BY U.S. BUREAU OF RECLAMATION. PERIODIC MEASUREMENTS PUBLISHED SINCE MAR. 21, 1972, MADE BY U.S. GEOLOGICAL SURVEY. RECORDER INSTALLED JUNE 20, 1951. CONTINUOUS RECORDER MAINTAINED, AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION. MP NO. 1 TOP OF CASING, 1.00 FT ABOVE LSD (SINCE MAY 25, 1951). APR 10, 1983; APR 15, 1983; APR 19, 1983; APR 20, 1983; APR 25, 1983; APR 30, 1983; MAY 03, 1983.

RECORDS AVAILABLE 1951 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 116.50 FEET BELOW LAND SURFACE DATUM SEP 23, 1951.

LOWEST WATER LEVEL WELL DRY APR 16, 1952; APR 20, 1982; MAR 20, 1983; MAR 25, 1983; MAR 31, 1983; APR 05, 1983; APR 10, 1983; APR 15, 1983; APR 19, 1983; APR 20, 1983; APR 25, 1983; APR 30, 1983; MAY 03, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 10, 1983	132.92		DEC 21, 1983	134.07	S	MAY 05, 1984	135.99		JUL 31, 1984	134.39	
13	132.69		JAN 20, 1984	135.18	S	10	135.96		AUG 05	133.95	
15	132.76		25	135.20		15	135.94		10	133.74	
20	132.77		31	135.44		20	135.89		15	133.43	
25	132.93		FEB 05	135.63		25	135.89		20	133.17	
NOV 01	132.79	S	22	136.10	S	31	135.96		25	132.95	
05	132.85		25	136.17		JUN 05	135.75		31	132.72	
10	132.84		29	136.37		10	135.50		SEP 05	132.63	
15	133.02		MAR 05	136.61		20	135.27		10	132.39	
20	132.89		10	136.74		25	135.33		11	132.29	S
25	133.17		15	136.51		30	135.23		15	132.32	
30	133.38		20	136.47		JUL 05	135.16		20	132.09	
DEC 05	133.62		APR 15	136.63		10	135.11		25	132.08	
10	133.75		20	136.41		15	135.09		30	131.93	
15	133.92		25	136.19		20	134.99				
20	134.02		30	136.19		25	134.77				

WELL 09S 26E 07AAB1 SITE NUMBER 423943113272001

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, REPORTED DEPTH 153 FT, 4-IN CASING 0-68 FT, 3/4-IN PIEZOMETER TUBE 0-152.5 FT, PERFORATED 145-150 FT, CONCRETE SEAL 153-168 FT. LSD 4,199.95 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN PIPE, 1.80 FT ABOVE LSD (SINCE NOV. 18, 1970).

RECORDS AVAILABLE 1970 - 1975, 1976 - 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 54.75 FEET BELOW LAND SURFACE DATUM AUG 23, 1972.

LOWEST WATER LEVEL 74.18 FEET BELOW LAND SURFACE DATUM MAR 25, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	67.62	S	MAR 23, 1984	72.36	S	JUL 05, 1984	68.42	S	SEP 11, 1984	66.47	S
JAN 20, 1984	70.75	S	MAY 09	70.76	S						

WELL 09S 26E 07AAB2 SITE NUMBER 423943113272002

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 550 FT, 3/4-IN PIEZOMETER TUBE 0-227 FT, PERFORATED 219.5-224.5 FT, GRAVEL FILL 168-550 FT, CONCRETE SEAL 153-168 FT, 550-620 FT. LSD 4,199.95 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN PIPE, 1.26 FT ABOVE LSD (SINCE NOV. 18, 1970).

RECORDS AVAILABLE 1970 - 1975, 1976 - 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 55.42 FEET BELOW LAND SURFACE DATUM AUG 25, 1972.

LOWEST WATER LEVEL 74.75 FEET BELOW LAND SURFACE DATUM MAR 25, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	68.16	S	MAR 23, 1984	72.76	S	JUL 05, 1984	69.14	S	SEP 11, 1984	67.21	S
JAN 20, 1984	70.99	S	MAY 09	71.41	S						

WELL 09S 26E 07AAB3 SITE NUMBER 423943113272003

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 804.5 FT, 1-IN PIEZOMETER TUBE 0-785.2 FT, PERFORATED 777.5-782.5 FT, GRAVEL FILL 620-630 FT, CAVED IN 630-804.5 FT, CONCRETE SEAL 550-620 FT. LSD 4,199.95 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 1-IN PIPE, 0.31 FT ABOVE LSD (SINCE NOV. 18, 1970).

RECORDS AVAILABLE 1970 - 1975, 1976 - 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 6.09 FEET BELOW LAND SURFACE DATUM JUL 27, 1972.

LOWEST WATER LEVEL 32.17 FEET BELOW LAND SURFACE DATUM SEP 22, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	27.73	S	MAR 23, 1984	23.21	S	JUL 05, 1984	24.07	S	SEP 11, 1984	26.87	S
JAN 20, 1984	24.63	S	MAY 09	21.89	S						

WELL 09S 26E 07BCC1 SITE NUMBER 423922113281201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 5 IN, DEPTH 88.0 FT, 8-IN CASING 0-7.2 FT, 5-IN CASING 0-88.5 FT, PERFORATED 58.5-88.5 FT. LSD 4,207.84 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MEASUREMENTS PRIOR TO MAR. 21, 1972, MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED AUG. 22, 1951. RECORDER REMOVED SEPT. 12, 1962. MP NO. 1 TOP OF 5-IN CASING, 0.70 FT ABOVE LSD (SINCE AUG. 17, 1951).

RECORDS AVAILABLE 1951 - 1962, 1963 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 58.33 FEET BELOW LAND SURFACE DATUM OCT 02, 1951.

LOWEST WATER LEVEL 82.95 FEET BELOW LAND SURFACE DATUM MAR 19, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 23, 1984	78.73	S	SEP 11, 1984	73.80	S

WELL 09S 26E 10DDD1 SITE NUMBER 423955113233901

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, DEPTH 128.0 FT, 8-IN CASING 0-15 FT, 6-IN CASING 15-118 FT. LSD 4,217.18 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. NOV. 17, 1983, WELL WAS DEEPENED TO A DEPTH OF 131.4 FT. MEASUREMENTS PRIOR TO MAR. 21, 1972, MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED JUNE 21, 1951. RECORDER REMOVED SEPT. 12, 1962. MP NO. 1 TOP OF CASING, 0.75 FT ABOVE LSD (SINCE JUNE 4, 1951).

RECORDS AVAILABLE 1951 - 1962, 1963 - 1971, 1972 - 1981, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 67.30 FEET BELOW LAND SURFACE DATUM OCT 20, 1951.

LOWEST WATER LEVEL 87.32 FEET BELOW LAND SURFACE DATUM MAR 23, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	83.79	S	MAR 23, 1984	87.32	S	JUL 05, 1984	85.82	S	SEP 11, 1984	83.45	S
JAN 20, 1984	85.97	S	MAY 09	86.91	S						

WELL 10S 22E 20CDC1 SITE NUMBER 423206113542301

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 3 IN, REPORTED DEPTH 561 FT, 6-IN CASING 0-285 FT, CONCRETE SEAL 279-285 FT BETWEEN WALL OF HOLE AND CASING, 3-IN BORE 285-561 FT. LSD 4,149.52 FT NGVD OF 1929. MP NO. 2 TOP OF 1-IN COUPLING SOUTH SIDE, 1.13 FT ABOVE LSD (SINCE SEPT. 16, 1983).

RECORDS AVAILABLE 1975 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 213.8 FEET BELOW LAND SURFACE DATUM NOV 06, 1975.

LOWEST WATER LEVEL 240.19 FEET BELOW LAND SURFACE DATUM SEP 09, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 21, 1983	236.51	S	JAN 18, 1984	231.06	S	APR 13, 1984	227.28	S	JUL 13, 1984	233.21	S
NOV 17	234.35	S	FEB 21	229.34	S	MAY 11	225.82	S	AUG 15	236.18	S
DEC 22	232.59	S	MAR 14	228.48	S	JUN 14	227.80	S	SEP 13	236.43	S

WELL 11S 20E 24DDD1 SITE NUMBER 422647114030401

DRILLED UNUSED WATER-TABLE WELL IN BANBURY FORMATION, DIAM 20 IN, DEPTH NOT AVAILABLE, CASING DEPTH NOT AVAILABLE. LSD ABOUT 4,258 FT NGVD OF 1929. RECORDER INSTALLED MAY 26, 1976. MP NO. 2 TOP OF CORRUGATION EAST SIDE, 2.72 FT ABOVE LSD (SINCE JULY 23, 1980).

RECORDS AVAILABLE 1976 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 215.50 FEET BELOW LAND SURFACE DATUM MAY 26, 1976.

LOWEST WATER LEVEL 267.78 FEET BELOW LAND SURFACE DATUM SEP 21, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 05, 1983	267.67	S	DEC 31, 1983	262.34		APR 20, 1984	255.70		JUL 10, 1984	256.56	
10	267.49		JAN 05, 1984	262.29		25	255.39		15	257.25	
15	267.24		10	261.94		30	255.40		20	258.92	
20	267.00		15	261.60		MAY 05	255.11		25	258.68	
25	266.80		18	261.53	S	10	254.97		31	259.19	
31	266.18	S	FEB 21	259.40	S	15	254.69		AUG 05	259.33	
NOV 05	265.94		25	259.00		20	254.59		10	259.37	
10	265.65		29	258.68		25	254.57		15	259.38	
15	265.35		MAR 05	258.68		31	254.35		20	259.55	
20	264.90		10	258.34		JUN 05	254.25		25	259.63	
25	264.62		15	257.83		06	254.21		31	259.61	
30	264.38		20	257.59		10	254.56		SEP 05	259.47	
DEC 05	264.11		25	257.21		15	254.66		10	259.09	
10	263.67		31	256.76		20	254.70		13	259.00	S
15	263.43		APR 05	256.48		25	255.06				
20	263.05		10	256.22		30	255.48				
25	262.83		15	256.19		JUL 05	256.01				

WELL 11S 22E 32CCC1 SITE NUMBER 422501113543901

FORMERLY SITE ID NO. 422501113564801. DRILLED OBSERVATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 6 IN, REPORTED DEPTH 635.0 FT, CASED TO 605 FT, CASING SEALED AT 605 FT. LSD 4,309.70 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. RECORDER INSTALLED JUNE 2, 1972, AND OPERATED BY U.S. BUREAU OF RECLAMATION. RECORDER REMOVED DEC. 17, 1974. MP NO. 2 TOP OF 1-IN HOLE IN CASING COVER, 2.61 FT ABOVE LSD (SINCE SEPT. 11, 1975).

RECORDS AVAILABLE 1972 - 1974, 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 368.21 FEET BELOW LAND SURFACE DATUM MAY 04, 1976.

LOWEST WATER LEVEL 410.22 FEET BELOW LAND SURFACE DATUM SEP 21, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	399.65	S	MAR 28, 1984	388.77	S	JUN 14, 1984	391.66	S	SEP 12, 1984	402.26	S
JAN 05, 1984	394.66	S	MAY 11	386.98	S	JUL 13	403.66	S			

WELL 11S 23E 34CDC1 SITE NUMBER 422458113452701

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 346.4 FT, CASED TO 282.3 FT. LSD 4,271.11 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. JULY 1, 1971, GEOPHYSICAL LOG SHOWED WELL HAD FILLED IN TO A DEPTH OF 340.5 FT. MAY 18, 1979, WELL WAS DEEPENED TO A DEPTH OF 412.3 FT. MP NO. 2 TOP OF 1 1/4-IN PIPE COUPLING, 2.25 FT ABOVE LSD (SINCE MAY 18, 1972).

RECORDS AVAILABLE 1952, 1962 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 289.97 FEET BELOW LAND SURFACE DATUM JUN 05, 1952.

LOWEST WATER LEVEL 355.25 FEET BELOW LAND SURFACE DATUM SEP 09, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 04, 1983	350.44	S	MAR 28, 1984	338.35	S	JUN 14, 1984	345.95	S	SEP 12, 1984	345.76	S

WELL 11S 27E 12DDA1 SITE NUMBER 422835113140701

DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 20 IN, REPORTED DEPTH 376 FT, CASED 0-245 FT, 297-330 FT, PERFORATED 167-245 FT, 297-330 FT. LSD 4,480.50 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 5 TOP OF ACCESS HOLE INSIDE PUMPBASE NORTHWEST SIDE, 1.41 FT ABOVE LSD (SINCE SEPT. 20, 1974).

RECORDS AVAILABLE 1963 - 1965, 1971 1972, 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 180.25 FEET BELOW LAND SURFACE DATUM APR 15, 1964.

LOWEST WATER LEVEL 257.05 FEET BELOW LAND SURFACE DATUM SEP 15, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 21, 1984	233.48	S	SEP 11, 1984	249.65	S

WELL 11S 27E 29AAA1 SITE NUMBER 422639113260101

DRILLED UNUSED WATER-TABLE WELL IN RAFT FORMATION, DIAM 8 IN, DEPTH 247.4 FT, CASED TO 237 FT. LSD 4,394.72 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED MAY 19, 1961. MP NO. 1 TOP OF 9-IN CASING NORTHEAST SIDE, 1.00 FT ABOVE LSD (SINCE AUG. 11, 1950).

RECORDS AVAILABLE 1950 - 1952, 1960, 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 32.75 FEET BELOW LAND SURFACE DATUM NOV 05, 1952.

LOWEST WATER LEVEL 114.64 FEET BELOW LAND SURFACE DATUM OCT 04, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL
OCT 05, 1983	111.14		JAN 04, 1984	109.76	S	MAR 31, 1984	107.74		JUN 30, 1984	107.24
10	111.12		05	109.74		APR 05	107.61		JUL 05	107.50
15	111.10		10	109.63		10	107.47		10	107.82
20	111.05		15	109.53		15	107.33		15	108.14
25	111.01		20	109.42		20	107.20		20	108.50
31	110.96		25	109.31		25	107.08		25	108.78
NOV 01	110.95	S	31	109.17		30	106.95		31	108.86
05	110.89		FEB 05	109.06		MAY 05	106.92		AUG 05	108.88
10	110.82		10	108.95		10	106.69		10	108.89
15	110.74		15	108.83		15	106.59		15	108.94
20	110.66		20	108.70		20	106.51		20	109.05
25	110.56		25	108.59		25	106.43		25	109.13
30	110.46		29	108.49		26	106.43		31	109.25
DEC 05	110.37		MAR 05	108.38		31	106.48		SEP 05	109.36
10	110.28		10	108.26		JUN 05	106.63		10	109.44
15	110.17		15	108.14		10	106.79		15	109.54
20	110.08		20	108.01		15	106.92		20	109.66
25	109.97		21	107.98	S	20	106.79		25	109.75
31	109.86		25	107.88		25	106.98		30	109.81

WELL 12S 19E 02BBB1 SITE NUMBER 422452114123201

DRILLED IRRIGATION WATER-TABLE WELL IN IDAVADA VOLCANICS, REPORTED DEPTH 750 FT, UNCASED OPEN HOLE. LSD 4,268.27 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. IN 1953 WELL WAS DEEPENED TO ABOUT 900 FT. MP NO. 1 TOP OF CONCRETE WEST SIDE OF HOLE BENEATH PUMP, 1.00 FT ABOVE LSD (SINCE OCT. 17, 1951).

RECORDS AVAILABLE 1951 - 1959, 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 100.98 FEET BELOW LAND SURFACE DATUM MAY 03, 1952.

LOWEST WATER LEVEL 411.20 FEET BELOW LAND SURFACE DATUM SEP 24, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 28, 1984	309.05	S	SEP 13, 1984	408.82	V

WELL 12S 20E 04DBC1 SITE NUMBER 422424114070001

DRILLED UNUSED WATER-TABLE WELL IN SANBURY FORMATION, DIAM 14 TO 10 IN, REPORTED DEPTH 565 FT, 14-IN CASING 0-30 FT, 10-IN CASING 430-500 FT. LSD ABOUT 4,320 FT NGVD OF 1929. RECORDER INSTALLED JULY 8, 1976. RECORDER REMOVED APR. 25, 1978. MP NO. 1 TOP OF 14-IN CASING SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE JULY 8, 1976).

RECORDS AVAILABLE 1976 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 225.63 FEET BELOW LAND SURFACE DATUM APR 19, 1979.

LOWEST WATER LEVEL 279.80 FEET BELOW LAND SURFACE DATUM SEP 13, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 21, 1983	247.39	S	JAN 25, 1984	236.93	S	APR 13, 1984	229.39	S	JUL 23, 1984	241.69	S
NOV 29	246.06	S	FEB 21	232.97	S	MAY 11	227.30	S	AUG 14	243.27	S
DEC 22	239.42	S	MAR 28	230.44	S	JUN 13	233.99	S	SEP 13	245.61	S

WELL 12S 21E 02DAA1 SITE NUMBER 422434113570201

DRILLED OBSERVATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 6 IN, REPORTED DEPTH 936.0 FT, CASED TO 907 FT, CASING SEALED AT 907 FT. LSD 4,361.25 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. AUG. 1, 1972, WELL HAD FILLED IN TO A DEPTH OF 918.0 FT. DIGITAL RECORDER INSTALLED AUG. 1, 1972. RECORDER CHANGED FROM DIGITAL TO ANALOG NOV. 20, 1979. MP NO. 1 TOP OF 6-IN CASING NORTHEAST SIDE, 0.47 FT ABOVE LSD (SINCE FEB. 3, 1972).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 373.12 FEET BELOW LAND SURFACE DATUM APR 26, 1976.

LOWEST WATER LEVEL 455.24 FEET BELOW LAND SURFACE DATUM SEP 16, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL
OCT 05, 1983	428.98		JAN 24, 1984	409.53	S	APR 20, 1984	401.12		JUL 15, 1984	426.98
10	427.25		25	409.37		25	400.68		20	429.56
15	425.71		31	408.81		30	400.62		21	430.45
20	424.34		FEB 05	408.36		MAY 05	400.20		25	428.94
25	423.32		10	407.44		09	400.20		31	425.88
27	422.25		15	407.07		10	400.20		AUG 05	423.74
28	423.33		20	406.74		15	402.00		10	421.63
29	422.68		25	406.00		20	405.07		15	422.21
31	422.07		29	405.67		25	406.20		20	419.92
NOV 05	421.05		MAR 05	405.38		31	405.33		25	420.14
10	420.00		10	404.88		JUN 05	405.67		31	418.09
15	419.12		15	404.24		10	406.43		SEP 05	417.99
20	417.81		20	403.92		15	407.46		10	417.37
24	417.30		25	403.35		20	408.55		15	417.33
30	416.44		29	402.85	S	25	411.55		20	416.75
DEC 03	415.75		31	402.67		30	415.29		25	415.90
09	414.99		APR 05	402.27		JUL 05	420.69		30	415.72
15	414.28		10	401.84		10	423.95			
20	413.57		15	401.73		13	425.75	S		

WELL 12S 21E 16DCC1 SITE NUMBER 422227113595901

DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 20-18-16 IN, DEPTH 256.7 FT, 20-IN CASING 0-98.7 FT, 18-IN CASING 98.7-127.3 FT, 16-IN CASING 127.3-233 FT. LSD 4,377.99 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 3 TOP OF CASING SOUTH SIDE, 0.90 FT ABOVE LSD (SINCE SEPT. 14, 1977).

RECORDS AVAILABLE 1962 - 1968, 1969 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 101.03 FEET BELOW LAND SURFACE DATUM MAR 12, 1975.

LOWEST WATER LEVEL 128.59 FEET BELOW LAND SURFACE DATUM JUL 13, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	126.80	S	MAR 28, 1984	126.26	S	JUN 13, 1984	126.34	S	SEP 12, 1984	125.11	S
JAN 05, 1984	126.58	S	MAY 11	126.33	S	JUL 13	127.48	S			

WELL 12S 21E 25CCC1 SITE NUMBER 422047113570101

DRILLED IRRIGATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 20 TO 12 IN, REPORTED DEPTH, 1,196 FT, 20-IN CASING 0-188 FT, 12-IN CASING 948-1,029 FT. LSD 4,409.64 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. JUNE 23, 1980, WELL WAS DEEPENED TO A REPORTED DEPTH OF 1,870 FT. MP NO. 3 TOP OF 1/2-IN HOLE IN STEEL CASING COVER, 0.90 FT ABOVE LSD (SINCE SEPT. 21, 1981).

RECORDS AVAILABLE 1962 - 1967, 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 315.54 FEET BELOW LAND SURFACE DATUM MAR 23, 1976.

LOWEST WATER LEVEL 393.32 FEET BELOW LAND SURFACE DATUM AUG 08, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 01, 1983	370.32	S	MAR 28, 1984	350.82	S	JUN 14, 1984	354.56	S	SEP 12, 1984	364.75	S

WELL 12S 25E 06DCC1 SITE NUMBER 422405113343801

DRILLED DOMESTIC AND STOCK WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 102.3 FT, CASED TO 120 FT. ORIGINAL REPORTED DEPTH 120 FT. LSD ABOUT 4,755 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE IN WELL SEAL NORTH SIDE, 1.40 FT BELOW LSD (SINCE SEPT. 22, 1966).

RECORDS AVAILABLE 1966 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.05 FEET BELOW LAND SURFACE DATUM MAR 24, 1983.

LOWEST WATER LEVEL 27.60 FEET BELOW LAND SURFACE DATUM SEP 11, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 23, 1984	4.46	V	SEP 12, 1984	9.58	V

WELL 12S 25E 09CCD1 SITE NUMBER 422313113324701

DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 10 IN, DEPTH 378.9 FT, CASED TO 250 FT. LSD ABOUT 4,931 FT NGVD OF 1929. MP NO. 1 TOP OF CASING WEST SIDE, 0.70 FT ABOVE LSD (SINCE SEPT. 21, 1966).

RECORDS AVAILABLE 1966 - 1971, 1972 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 84.36 FEET BELOW LAND SURFACE DATUM MAY 06, 1976.

LOWEST WATER LEVEL 106.10 FEET BELOW LAND SURFACE DATUM OCT 15, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 23, 1984	87.30	S	SEP 12, 1984	84.93	S

WELL 12S 25E 18BBA1 SITE NUMBER 422310113350801

DRILLED DOMESTIC AND STOCK WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 8 IN, DEPTH 103.8 FT, CASED TO 104 FT. LSD ABOUT 4,940 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE IN WELL SEAL SOUTH SIDE, 0.20 FT ABOVE LSD (SINCE SEPT. 21, 1966).

RECORDS AVAILABLE 1966 - 1971, 1972 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 27.43 FEET BELOW LAND SURFACE DATUM SEP 23, 1976.

LOWEST WATER LEVEL 52.27 FEET BELOW LAND SURFACE DATUM MAR 04, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 23, 1984	42.85	S	SEP 12, 1984	24.02	X S

WELL 12S 25E 28AAA3 SITE NUMBER 422125113314901

DRILLED STOCK WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 8 IN, DEPTH 177.2 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 5,356 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE IN WELL SEAL NORTHWEST SIDE, 1.70 FT ABOVE LSD (SINCE SEPT. 20, 1966).

RECORDS AVAILABLE 1966 - 1971, 1972 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 52.75 FEET BELOW LAND SURFACE DATUM SEP 12, 1984.

LOWEST WATER LEVEL 122.07 FEET BELOW LAND SURFACE DATUM JUN 17, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 23, 1984	64.21	S	SEP 12, 1984	52.75	S

WELL 12S 26E 02ACC1 SITE NUMBER 422438113230401

DRILLED IRRIGATION WATER-TABLE WELL IN RAFT FORMATION, DIAM 20 IN, REPORTED DEPTH 197 FT, CASED TO 197 FT, OPEN BOTTOM. LSD 4,415.41 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 3 TOP OF CONCRETE PLATFORM WEST SIDE, 1.50 FT ABOVE LSD (SINCE NOV. 2, 1972).

RECORDS AVAILABLE 1950 - 1952, 1957 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.69 FEET BELOW LAND SURFACE DATUM APR 21, 1950.

LOWEST WATER LEVEL 113.72 FEET BELOW LAND SURFACE DATUM SEP 16, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 21, 1984	92.53	S	SEP 11, 1984	100.55	S

WELL 13S 21E 18BBC1 SITE NUMBER 421755114024401

DRILLED UNUSED WATER-TABLE WELL IN LIMESTONE OF PALEOZOIC AGE, DIAM 16 TO 17 IN, REPORTED DEPTH 850 FT, 16-IN CASING 0-20 FT, 17-IN CASING 20-80 FT, BOTTOM OF CASING SET IN CONCRETE SEAL. LSD 4,953.63 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. JULY 17, 1968, WELL HAD FILLED IN TO A DEPTH OF 820.9 FT. RECORDER INSTALLED AUG. 16, 1961. RECORDER REMOVED NOV. 30, 1971. RECORDER INSTALLED MAY 3, 1972. MP NO. 4 TOP OF 1-IN PIPE FLANGE NORTHWEST SIDE, 2.07 FT ABOVE LSD (SINCE AUG. 2, 1972).

RECORDS AVAILABLE 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 362.14 FEET BELOW LAND SURFACE DATUM APR 19, 1961.

LOWEST WATER LEVEL 593.87 FEET BELOW LAND SURFACE DATUM OCT 24, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL
OCT 05, 1983	593.24	DEC 20, 1983	593.00	MAR 15, 1984	591.78		JUL 25, 1984	586.57
10	593.46	25	592.94	20	591.81		31	586.59
15	593.38	31	593.30	21	591.44		AUG 05	586.66
20	593.47	JAN 05, 1984	592.96	25	591.67		10	586.82
24	593.87	10	592.77	31	591.41		15	586.98
25	593.79	15	592.97	APR 05	591.34		20	586.97
31	593.37	20	592.96	10	591.17		25	587.10
NOV 05	593.41	25	592.67	15	591.30		31	587.37
10	593.30	31	592.57	20	590.93		SEP 05	587.40
15	593.49	FEB 05	592.55	25	590.36		10	587.48
20	592.98	10	592.17	30	590.50		15	587.69
25	593.24	15	592.49	MAY 05	590.08		20	587.72
26	593.70	20	592.48	10	589.73		25	588.21
30	593.22	25	592.13	JUL 11	586.45	S	30	587.98
DEC 05	593.46	29	592.12	12	586.43			
10	593.34	MAR 05	592.15	15	586.49			
15	593.24	10	592.03	20	586.48			

WELL 13S 22E 21CCD1 SITE NUMBER 421621113531601

DUG DOMESTIC WATER-TABLE WELL IN CLAY AND GRAVEL OF QUATERNARY AGE, DIAM 36 X 60 IN, REPORTED DEPTH 80 FT, CASED TO 80 FT. LSD 4,491.80 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. JUNE 2, 1972, CONTINUOUS RECORDER INSTALLED AND MAINTAINED BY THE U.S. BUREAU OF RECLAMATION. RECORDER REMOVED DEC. 17, 1974. MP NO. 2 TOP OF SOUTH 2X10-IN BOARD NORTH EDGE, 0.60 FT ABOVE LSD (SINCE AUG. 1, 1975).

RECORDS AVAILABLE 1972 - 1974, 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 4.02 FEET BELOW LAND SURFACE DATUM SEP 11, 1975.

LOWEST WATER LEVEL 70.30 FEET BELOW LAND SURFACE DATUM MAY 18, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	22.69	S	MAR 28, 1984	37.20	S	JUN 13, 1984	13.05	S	SEP 13, 1984	7.95	S
JAN 05, 1984	30.30	S	MAY 11	19.29	S	JUL 11	10.52	S			

SITE NUMBER 421620113531701

WELL 13S 22E 21CCD2

DRILLED OBSERVATION WATER-TABLE WELL IN SILTY SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 TO 6 IN, DEPTH 1,004.0 FT, 8-IN CASING 0-543 FT, 6-IN CASING 536-1,000 FT, PERFORATED 560-606 FT. LSD 4,491.80 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. JUNE 1, 1972, CONTINUOUS RECORDER INSTALLED AND MAINTAINED BY U.S. BUREAU OF RECLAMATION. RECORDER REMOVED DEC. 17, 1974. MP NO. 2 TOP OF HOLE IN CENTER OF CASING COVER WEST SIDE, 2.12 FT ABOVE LSD (SINCE SEPT. 11, 1975).

RECORDS AVAILABLE 1972 - 1974, 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 14.68 FEET BELOW LAND SURFACE DATUM SEP 13, 1984.

LOWEST WATER LEVEL 71.5[illegible] FEET BELOW LAND SURFACE DATUM MAY 18, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	29.69	S	MAR 28, 1984	45.64	S	JUN 13, 1984	20.97	S	SEP 13, 1984	14.68	S
JAN 05, 1984	34.61	S	MAY 11	34.66	S	JUL 11	17.73	S			

SITE NUMBER 421621113531602

WELL 13S 22E 21CCD3

DRILLED DOMESTIC WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 4 IN, REPORTED DEPTH 140 FT, CASED TO 140 FT, THIS WELL WAS DRILLED INSIDE AN EXISTING DUG WELL. LSD 4,491.80 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. ALL MEASUREMENTS PRIOR TO AUG. 1, 1975, MADE BY U.S. BUREAU OF RECLAMATION. MP NO. 3 TOP OF SOUTH 2X10-IN BOARD NORTH EDGE, 0.60 FT ABOVE LSD (SINCE AUG. 1, 1975).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.73 FEET BELOW LAND SURFACE DATUM SEP 11, 1975.

LOWEST WATER LEVEL 67.27 FEET BELOW LAND SURFACE DATUM MAY 18, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	25.01	S	MAR 28, 1984	42.14	S	JUN 13, 1984	17.32	S	SEP 13, 1984	10.50	S
JAN 05, 1984	30.38	S	MAY 11	30.24	S	JUL 11	13.26	S			

SITE NUMBER 421852113222601

WELL 13S 26E 01CCC1

DRILLED IRRIGATION WATER-TABLE WELL IN GRAVEL OF QUATERNARY AGE, DIAM 16 IN, REPORTED DEPTH 69 FT, CASED TO 66 FT, PERFORATED 24-43 FT, 46-64 FT. LSD 4,517.63 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. IN 1959 WELL WAS DEEPENED TO A REPORTED DEPTH OF 250 FT. JUNE 23, 1965, WELL HAD FILLED IN TO A DEPTH OF 223.2 FT. MP NO. 2 BOTTOM EDGE OF SLOPING PIPE EAST SIDE, 0.98 FT ABOVE LSD (SINCE FEB. 9, 1966).

RECORDS AVAILABLE 1949 - 1952, 1961 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 21.60 FEET BELOW LAND SURFACE DATUM JUN 19, 1950.

LOWEST WATER LEVEL 40.46 FEET BELOW LAND SURFACE DATUM SEP 15, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	
MAR 21, 1984	24.87	S

WELL 13S 27E 15CAA1 SITE NUMBER 421731113170601

DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAMETER 14 TO 12 IN, REPORTED DEPTH 947 FT, 14-IN CASING 0-348 FT, 12-IN CASING 348-428 FT, PERFORATED 320-348 FT, 355-428 FT. LSD 4,629.60 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF HOLE INSIDE PUMPBASE EAST SIDE, 0.50 FT ABOVE LSD (SINCE OCT. 24, 1966).

RECORDS AVAILABLE 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 128.31 FEET BELOW LAND SURFACE DATUM APR 20, 1964.

LOWEST WATER LEVEL 192.16 FEET BELOW LAND SURFACE DATUM SEP 23, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	
MAR 21, 1984	158.65	S

WELL 14S 27E 33CDD1 SITE NUMBER 420917113181501

DRILLED UNUSED WATER-TABLE WELL IN COARSE GRAINED GRAVEL OF QUATERNARY AGE, DIAM 16 TO 14 IN, DEPTH 199.6 FT, 16-IN CASING 0-92 FT, 14-IN CASING 87-225 FT, PERFORATED 45-50 FT, 105-225 FT. LSD ABOUT 4,715 FT NGVD OF 1929. ORIGINAL DEPTH 225 FT. JUNE 22, 1965, WELL HAD FILLED IN TO A DEPTH OF 199.6 FT. RECORDER INSTALLED JUNE 22, 1965. RECORDER REMOVED AUG. 12, 1971. DIGITAL RECORDER INSTALLED JULY 26, 1977. MP NO. 1 TOP OF 16-IN CASING NORTHWEST SIDE, 1.00 FT ABOVE LSD (SINCE AUG. 3, 1955).

RECORDS AVAILABLE 1955, 1965 - 1971, 1972 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 34.44 FEET BELOW LAND SURFACE DATUM NOV 23, 1971.

LOWEST WATER LEVEL 48.72 FEET BELOW LAND SURFACE DATUM SEP 18, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	41.30	FEB 25, 1984	40.41	MAY 10, 1984	38.96	JUL 31, 1984	38.22
10	41.16	29	40.43	15	38.89	AUG 05	37.09
15	41.03	MAR 05	40.42	20	38.88	10	36.72
20	40.94	10	40.35	25	38.88	15	36.48
25	40.93	15	40.03	31	39.30	20	36.32
27	40.78	20	39.83	JUN 05	39.52	25	36.31
31	40.82	21	39.74	10	38.72	31	36.19
NOV 02	40.87	25	39.72	15	38.13	SEP 05	36.19
03	40.87	31	39.59	20	38.31	10	36.13
05	40.79	APR 05	39.50	25	38.48	11	36.06
10	40.75	10	39.43	30	38.31	15	36.25
15	40.81	15	39.44	JUL 05	38.40	20	36.19
20	40.59	20	39.31	10	38.43	25	36.45
FEB 10, 1984	40.42	25	39.16	15	38.36	29	36.67
15	40.55	30	39.22	20	38.41	30	36.52
20	40.56	MAY 05	39.06	25	38.30		

WELL 16S 28E 20CDC1 SITE NUMBER 420039113122301

DRILLED STOCK WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 8 IN, DEPTH 295.0 FT, CASED TO 200 FT. LSD ABOUT 5,280 FT NGVD OF 1929. MP NO. 2 TOP OF HOLE IN WELL SEAL WEST SIDE, 6.25 FT BELOW LSD (SINCE SEPT. 20, 1968).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.

HIGHEST WATER LEVEL 146.09 FEET BELOW LAND SURFACE DATUM MAR 22, 1976.

LOWEST WATER LEVEL 148.43 FEET BELOW LAND SURFACE DATUM FEB 18, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL
MAR 21, 1984	146.37	S	SEP 11, 1984	147.36 P S

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WELL 09N 34E 11AD01 SITE NUMBER 440725112245301

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, DEPTH 192.6 FT, CASED TO 208 FT. ORIGINAL DRILLED DEPTH 208 FT. LSD ABOUT 4,955 FT NGVD OF 1929. RECORDER INSTALLED OCT. 7, 1959. RECORDER REMOVED MAY 9, 1972. RECORDER INSTALLED JULY 9, 1977. MP NO. 2 TOP OF 4-IN CASING NORTHEAST SIDE, 2.32 FT ABOVE LSD (SINCE JULY 18, 1975).

RECORDS AVAILABLE 1957 - 1958, 1959 - 1972, 1973 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 149.86 FEET BELOW LAND SURFACE DATUM SEP 30, 1984.

LOWEST WATER LEVEL 157.94 FEET BELOW LAND SURFACE DATUM NOV 20, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL
OCT 01, 1983	155.14	JAN 12, 1984	153.48	APR 05, 1984	152.37		JUL 31, 1984	150.74
05	155.13	15	153.48	10	152.29		AUG 05	150.68
10	155.08	20	153.38	15	152.28		10	150.65
15	155.04	25	153.29	20	152.19		15	150.59
20	154.98	31	153.20	25	152.14		20	150.56
25	154.93	FEB 05	153.12	30	152.10		25	150.51
31	154.85	10	153.03	MAY 05	152.04		31	150.44
NOV 05	154.79	15	152.96	10	151.98		SEP 05	150.37
10	154.73	20	152.91	15	151.92		10	150.26
15	154.66	25	153.84	20	151.86		15	150.16
20	154.60	29	152.78	23	151.31		20	150.07
25	154.45	MAR 05	152.72	25	151.79		24	150.00
30	154.43	10	152.65	31	151.71		25	149.97
DEC 05	154.36	15	152.58	JUL 10	150.99	S	30	149.86
10	154.15	20	152.54	15	150.92			
15	154.04	25	152.48	20	150.88			
20	153.95	31	152.43	25	150.82			

WELL 09N 36E 33CBB1 SITE NUMBER 440353112135701

DRILLED INDUSTRIAL WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, REPORTED DEPTH 155 FT, CASED TO 12 FT. LSD ABOUT 4,865 FT NGVD OF 1929. DIGITAL RECORDER INSTALLED JULY 8, 1977. MP NO. 3 TOP OF CONCRETE PLATFORM NORTHEAST SIDE, 0.43 FT ABOVE LSD (SINCE JULY 8, 1977).

RECORDS AVAILABLE 1963 - 1968, 1969 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 73.06 FEET BELOW LAND SURFACE DATUM JUN 21, 1984.

LOWEST WATER LEVEL 80.88 FEET BELOW LAND SURFACE DATUM SEP 17, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 01, 1983	76.93	NOV 25, 1983	75.76		MAR 10, 1984	74.92		JUL 15, 1984	74.15	
05	76.86	30	75.80		MAY 23	73.27	S	20	74.34	
10	76.77	DEC 05	75.78		25	73.35		25	74.42	
15	76.65	10	75.54		31	73.41		31	74.32	
20	76.57	15	75.51		JUN 05	73.38		AUG 05	74.30	
25	76.66	20	75.37		10	73.27		10	74.40	
31	76.51	25	75.23		15	73.21		15	74.41	
NOV 05	76.44	31	75.57		20	73.12		20	74.31	
10	76.40	JAN 13, 1984	75.21	S	21	73.06		SEP 24	73.45	S
15	76.27	15	75.32		25	73.30		25	73.50	
17	75.99	17	75.27		30	73.49		30	73.37	
18	75.99	MAR 02	74.91	S	JUL 05	73.65				
20	75.80	05	74.96		10	73.90				

WELL 15N 20E 01ADC1 SITE NUMBER 443942114C21301

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 62.8 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 4,748 FT NGVD OF 1929. MP NO. 2 TOP OF 6-IN CASING WEST SIDE, 0.60 FT ABOVE LSD (SINCE APR. 10, 1974).

RECORDS AVAILABLE 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 31.51 FEET BELOW LAND SURFACE DATUM JUL 11, 1980.

LOWEST WATER LEVEL 49.31 FEET BELOW LAND SURFACE DATUM MAR 12, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	42.79	S	JAN 18, 1984	44.74	S	APR 05, 1984	44.64	S	AUG 07, 1984	38.58	S
30	43.47	S	FEB 09	45.00	S	MAY 08	45.28	S	23	37.00	S
DEC 14	44.00	S	MAR 07	45.19	S	JUN 06	34.14	S	SEP 11	38.75	S
JAN 04, 1984	44.55	S	13	45.14	S	JUL 17	35.65	S			

WELL 12N 23E 02BBC1 SITE NUMBER 442412113423601

DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 20 IN, DEPTH 127.7 FT, CASING DEPTH NOT AVAILABLE, PERFORATED INTERVAL NOT AVAILABLE. LSD ABOUT 5,908 FT NGVD OF 1929. MP NO. 1 HOLE IN PUMPBASE SOUTHWEST SIDE, 1.20 FT ABOVE LSD (SINCE APR. 30, 1971).

RECORDS AVAILABLE 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.80 FEET BELOW LAND SURFACE DATUM JUL 17, 1984.

LOWEST WATER LEVEL 31.77 FEET BELOW LAND SURFACE DATUM MAR 01, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	17.37	S	JAN 18, 1984	23.80	S	APR 04, 1984	22.32	S	AUG 07, 1984	12.13	S
DEC 01	19.99	S	FEB 09	24.47	S	MAY 08	15.73	S	23	15.95	S
14	22.00	S	MAR 08	23.84	S	JUN 05	14.47	S	SEP 11	16.20	S
JAN 04, 1984	23.24	S	13	23.57	S	JUL 17	9.80	S			

WELL 09N 21E 14BBC1 SITE NUMBER 44064911356570.

DRILLED IRRIGATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 16 IN, DEPTH 253.8 FT, CASED TO 267 FT, PERFORATED 167-267 FT. LSD ABOUT 6,363 FT NGVD OF 1929. RECORDER INSTALLED SEPT. 30, 1966. RECORDER REMOVED FEB. 4, 1972. RECORDER INSTALLED JULY 27, 1977. MP NO. 2 TOP OF CASING NORTHEAST SIDE, 0.50 FT ABOVE LSD (SINCE SEPT. 30, 1966).

RECORDS AVAILABLE 1966 - 1971, 1973 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 69.76 FEET BELOW LAND SURFACE DATUM NOV 02, 1983.

LOWEST WATER LEVEL 85.72 FEET BELOW LAND SURFACE DATUM MAY 15, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 02, 1983	69.76	S	FEB 08, 1984	76.54	S	APR 30, 1984	77.23	JUL 25, 1984	78.01
05	70.84		10	76.35		MAY 05	77.22	31	77.87
10	72.47		14	76.35		08	77.50	AUG 05	77.22
15	73.64		15	76.47		10	77.39	10	76.95
20	74.21		20	76.67		15	77.35	15	76.84
25	74.80		25	76.48		20	77.41	20	76.77
30	75.36		29	76.65		25	78.03	25	76.73
DEC 05	75.62		MAR 05	76.70		31	78.43	31	76.72
10	75.82		10	76.74		JUN 05	77.85	SEP 05	76.94
15	76.06		15	76.60		10	78.01	10	77.38
20	76.15		20	76.93		15	77.77	12	78.92
25	76.39		25	76.78		20	77.78	15	78.20
31	76.47		31	76.83		25	77.35	20	78.18
JAN 02, 1984	76.62		APR 05	76.90		30	[illegible]	25	77.57
05	76.55		10	76.87		JUL 05	77.91	30	77.48
08	76.44		15	77.23		10	77.99		
18	76.40	S	20	77.02		15	78.13		
FEB 05	76.60		25	77.01		20	78.08		

WELL 01S 04E 10DA01 SITE NUMBER 432055115571801

DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 10 TO 6 IN, REPORTED DEPTH 525 FT, CASED TO 496 FT, 10-IN CASING 0-496 FT, 6-IN SCREEN 485-525 FT, OPEN BOTTOM. LSD ABOUT 3,300 FT NGVD OF 1929. RECORDER INSTALLED MAY 4, 1961. RECORDER REMOVED JULY 20, 1964. MP NO. 2 TOP OF 5/8-IN HOLE IN WELL SEAL, 2.46 FT ABOVE LSD (SINCE MAR. 25, 1980).

RECORDS AVAILABLE 1960, 1961 - 1964, 1965 - 1967, 1968 TO CURRENT YEAR.

HIGHEST WATER LEVEL 340.98 FEET BELOW LAND SURFACE DATUM SEP 21, 1984.

LOWEST WATER LEVEL 342.40 FEET BELOW LAND SURFACE DATUM MAR 05, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 21, 1984	340.99	S	SEP 21, 1984	340.98	S

WELL 02S 05E 26BDB1 SITE NUMBER 431329115495301

DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 6 IN, DEPTH 428.5 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 3,025 FT NGVD OF 1929. MP NO. 1 TOP OF 7/8-IN HOLE IN CASING CAP SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE DEC. 28, 1960).

RECORDS AVAILABLE 1960, 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 307.02 FEET BELOW LAND SURFACE DATUM AUG 22, 1977.

LOWEST WATER LEVEL 314.25 FEET BELOW LAND SURFACE DATUM JAN 16, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 31, 1983	309.31	S	JAN 24, 1984	310.21	S	APR 24, 1984	310.23	S	JUL 16, 1984	310.22	S
NOV 23	309.55	S	FEB 28	310.41	S	MAY 22	310.31	S	AUG 31	310.23	S
DEC 28	310.06	S	MAR 21	310.30	S	JUN 25	310.20	S	SEP 20	310.02	S

WELL 02S 05E 36BBB1 SITE NUMBER 431242115485501

DRILLED UNUSED WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 6 IN, DEPTH 356.9 FT, CASED TO 50 FT. LSD ABOUT 3,190 FT NGVD OF 1929. RECORDER INSTALLED JUNE 23, 1967. RECORDER REMOVED NOV. 15, 1971. MP NO. 3 TOP OF CASING NORTHEAST SIDE, 2.00 FT ABOVE LSD (SINCE JUNE 23, 1967).

RECORDS AVAILABLE 1960 - 1966, 1967 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 280.97 FEET BELOW LAND SURFACE DATUM NOV 21, 1977.

LOWEST WATER LEVEL 285.95 FEET BELOW LAND SURFACE DATUM MAY 28, 1965.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	282.93	S	MAR 21, 1984	282.80	S	JUL 16, 1984	282.82	S	SEP 20, 1984	282.77	S
JAN 24, 1984	283.02	S	MAY 22	283.03	S						

WELL 02S 06E 11DAC1 SITE NUMBER 431527115420901

DRILLED UNUSED WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 12 IN, REPORTED DEPTH 1,620 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 3,400 FT NGVD OF 1929. AUG. 13, 1970, WELL HAD FILLED IN TO A DEPTH OF 1,550 FT. MP NO. 1 TOP OF HOLE IN 12-IN CASING, 1.70 FT ABOVE LSD (SINCE SEPT. 28, 1976).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 104.34 FEET BELOW LAND SURFACE DATUM MAR 22, 1983.

LOWEST WATER LEVEL 116.62 FEET BELOW LAND SURFACE DATUM SEP 12, 1973.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	
MAR 21, 1984	106.11	S

WELL 02S 11E 11CDD1 SITE NUMBER 431521115065501

DRILLED UNUSED WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 16 TO 12 IN, DEPTH 226.2 FT, 16-IN CASING 0-152 FT, 12-IN CASING 152-228 FT, 16-IN SCREEN 142-152 FT, 12-IN SCREEN 177.5-182.5 FT, 203-223 FT. LSD ABOUT 5,110 FT NGVD OF 1929. MP NO. 1 TOP OF 16-IN CASING NORTH SIDE, 1.50 FT ABOVE LSD (SINCE MAR. 16, 1977).

RECORDS AVAILABLE 1977 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 11.10 FEET BELOW LAND SURFACE DATUM APR 21, 1981.

LOWEST WATER LEVEL 63.44 FEET BELOW LAND SURFACE DATUM AUG 18, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	28.99	S	MAR 26, 1984	20.71	S	JUL 23, 1984	47.43	S	SEP 16, 1984	39.72	S
JAN 09, 1984	23.90	S									

WELL 03S 05E 07BDD1 SITE NUMBER 431044115542901

DRILLED UNUSED WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 18 TO 12 IN, REPORTED DEPTH 497 FT, 18-IN CASING 0-110 FT, 12-IN CASING 0-334 FT, PERFORATED 240-332 FT. LSD ABOUT 3,074 FT NGVD OF 1929. MP NO. 2 TOP OF 1-IN HOLE IN CASING CAP NORTHWEST SIDE, 2.10 FT ABOVE LSD (SINCE DEC. 19, 1979).

RECORDS AVAILABLE 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 241.35 FEET BELOW LAND SURFACE DATUM MAY 25, 1976.

LOWEST WATER LEVEL 280.03 FEET BELOW LAND SURFACE DATUM DEC 27, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 31, 1983	276.64 R	S	JAN 24, 1984	274.51	S	APR 24, 1984	272.77	S	JUL 16, 1984	270.17	S
NOV 22	275.42	S	FEB 28	273.92	S	MAY 22	272.30	S	AUG 31	269.76	S
DEC 28	275.12	S	MAR 21	273.60	S	JUN 25	270.86	S	SEP 20	269.56	S

WELL 03S 06E 13BBA1 SITE NUMBER 431011115411001

DRILLED UNUSED WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 12 IN, REPORTED DEPTH 150 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 3,240 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE IN CASING COVER NORTH SIDE, 1.50 FT ABOVE LSD (SINCE MAY 7, 1976).

RECORDS AVAILABLE 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 21.47 FEET BELOW LAND SURFACE DATUM APR 24, 1984.

LOWEST WATER LEVEL 60.88 FEET BELOW LAND SURFACE DATUM SEP 14, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 31, 1983	30.66	S	JAN 24, 1984	26.52	S	APR 24, 1984	21.47	S	JUL 17, 1984	35.04	S
NOV 23	30.15	S	FEB 28	23.61	S	MAY 22	26.48	S	AUG 31	45.06	S
DEC 28	27.65	S	MAR 21	22.83	S	JUN 25	29.04	S	SEP 17	43.39	S

WELL 03S 06E 35ABB1 SITE NUMBER 430732115422301

DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE, DIAM 12 IN, DEPTH 14.5 FT, CASED TO 14.5 FT, OPEN BOTTOM. LSD ABOUT 3,135 FT NGVD OF 1929. MP NO. 3 TOP OF 14-IN CASING SOUTH SIDE, 1.20 FT ABOVE LSD (SINCE NOV. 25, 1980).

RECORDS AVAILABLE 1967 - 1971, 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.74 FEET BELOW LAND SURFACE DATUM FEB 28, 1984.

LOWEST WATER LEVEL 7.69 FEET BELOW LAND SURFACE DATUM AUG 03, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 31, 1983	3.15	S	JAN 24, 1984	2.25	S	APR 24, 1984	2.76	S	JUL 17, 1984	4.27	P S
NOV 23	2.77	S	FEB 28	0.74	S	MAY 24	2.92	S	AUG 31	4.02	S
DEC 28	1.90	S	MAR 22	1.40	S	JUN 25	3.48	P S	SEP 17	4.26	P S

WELL 03S 06E 35BCC1 SITE NUMBER 430716115425101

DRILLED IRRIGATION WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 12 IN, DEPTH 857.0 FT, CASED TO 598 FT, PERFORATED 6-264 FT. LSD ABOUT 3,145 FT NGVD OF 1929. MP NO. 2 TOP OF 5/8-IN HOLE IN WHEEL EAST SIDE, 1.90 FT ABOVE LSD (SINCE JULY 15, 1981).

RECORDS AVAILABLE 1967, 1968 TO CURRENT YEAR.

HIGHEST WATER LEVEL 385.00 FEET BELOW LAND SURFACE DATUM NOV 03, 1967.

LOWEST WATER LEVEL 418.65 FEET BELOW LAND SURFACE DATUM NOV 30, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	416.78	V	MAR 22, 1984	409.68	V	JUL 17, 1984	414.86	V	SEP 17, 1984	417.05	V
JAN 24, 1984	411.14	V	MAY 24	412.43	V						

WELL 04S 03E 23CDD1 SITE NUMBER 430321116040101

DRILLED UNUSED WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 20 IN, REPORTED DEPTH 600 FT, CASED TO 65.5 FT. LSD ABOUT 2,917 FT NGVD OF 1929. MP NO. 1 TOP OF 1-IN COUPLING, [illegible].65 FT ABOVE LSD (SINCE APR. 15, 1976).

RECORDS AVAILABLE 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 242.69 FEET BELOW LAND SURFACE DATUM JAN 22, 1977.

LOWEST WATER LEVEL 252.19 FEET BELOW LAND SURFACE DATUM AUG 31, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 31, 1983	250.93	S	FEB 01, 1984	251.54	S	APR 24, 1984	251.55	S	JUL 17, 1984	251.78	V
NOV 23	251.32	S	28	251.62	S	MAY 24	251.97	S	AUG 31	252.19	S
DEC 28	251.71	S	MAR 22	251.77	S	JUN 25	251.98	S	SEP 20	252.03	S

WELL 04S 05E 24AAB1 SITE NUMBER 430411115474901

DRILLED DOMESTIC WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 8 IN, DEPTH 553.3 FT, CASED TO 6 FT. LSD ABOUT 3,092 FT NGVD OF 1929. MP NO. 2 TOP OF NIPPLE IN WELL SEAL, 0.43 FT BELOW LSD (SINCE MAR. 30, 1981).

RECORDS AVAILABLE 1967, 1968 - 1971, 1976, 1977 - 1984.

HIGHEST WATER LEVEL 410.82 FEET BELOW LAND SURFACE DATUM MAR 16, 1977.

LOWEST WATER LEVEL 421.41 FEET BELOW LAND SURFACE DATUM OCT 25, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 24, 1984	421.61 R	S	JUL 17, 1984	0	SEP 20, 1984	0	SEP 21, 1984	N
JUN 25	421.26	S	AUG 31	0				

WELL 04S 05E 25BBC1 SITE NUMBER 430310115485701

DRILLED IRRIGATION WATER-TABLE WELL IN BRUNEAU FORMATION, REPORTED DEPTH 530 FT, CASING INFORMATION NOT AVAILABLE. LSD ABOUT 3,048 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE INSIDE PUMPBASE NORTH SIDE, 1.20 FT ABOVE LSD (SINCE SEPT. 25, 1979).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 359.05 FEET BELOW LAND SURFACE DATUM JAN 27, 1967.

LOWEST WATER LEVEL 431.73 FEET BELOW LAND SURFACE DATUM SEP 15, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 22, 1984	390.21	S	SEP 21, 1984	406.19	T

WELL 04S 07E 09DCC1 SITE NUMBER 430505115373401

DRILLED IRRIGATION WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 12 TO 8 IN, REPORTED DEPTH 862 FT, 12-IN CASING 0-630 FT, 8-IN CASING 665-775 FT. LSD ABOUT 3,152 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE INSIDE PUMPBASE NORTHEAST SIDE, 0.60 FT ABOVE LSD (SINCE JAN. 30, 1967).

RECORDS AVAILABLE 1967 - 1977, 1978 - 1981, 1982 TO CURRENT YEAR.

HIGHEST WATER LEVEL 367.40 FEET BELOW LAND SURFACE DATUM MAR 19, 1973.

LOWEST WATER LEVEL 413.70 FEET BELOW LAND SURFACE DATUM SEP 12, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 22, 1983	381.56	V	MAR 21, 1984	369.42	V	MAY 22, 1984	369.10	V	SEP 20, 1984	393.66	V

WELL 04S 10E 30BBA1 SITE NUMBER 430310115190801

DRILLED UNUSED WATER-TABLE WELL IN GLENNS FERRY FORMATION, DIAM 16 IN, REPORTED DEPTH 2,265 FT, 20-IN CASING 0-400 FT, 16-IN CASING 0-1,497 FT. LSD ABOUT 3,455 FT NGVD OF 1929. SEPT. 2, 1970, WELL HAD FILLED IN TO A DEPTH OF 1,481 FT. MP NO. 1 TOP OF HOLE IN 20-IN CASING COVER, 1.70 FT ABOVE LSD (SINCE FEB. 3, 1967).

RECORDS AVAILABLE 1967 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 257.33 FEET BELOW LAND SURFACE DATUM MAR 23, 1968.

LOWEST WATER LEVEL 271.27 FEET BELOW LAND SURFACE DATUM SEP 20, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 22, 1983	269.62	S	MAR 22, 1984	268.65	S	JUL 16, 1984	269.51	S	SEP 17, 1984	270.96	S
JAN 25, 1984	268.78	S	MAY 22	268.84	S						

WELL 05S 08E 36CCC1 SITE NUMBER 425621115273501

DRILLED UNUSED WATER-TABLE WELL IN MELON GRAVEL, DIAM 6 IN, REPORTED DEPTH 90 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,536 FT NGVD OF 1929. MP NO. 2 LOW POINT OF NOTCH IN TOP OF CASING SOUTHWEST SIDE, 3.89 FT BELOW LSD (SINCE APR. 11, 1979).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 55.49 FEET BELOW LAND SURFACE DATUM SEP 21, 1974.

LOWEST WATER LEVEL 65.11 FEET BELOW LAND SURFACE DATUM MAR 09, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 22, 1984	64.48	S	SEP 17, 1984	63.42	S

WELL 06S 10E 30DBC1 SITE NUMBER 425211115184501

FORMERLY SITE ID NO. 425208115184201, WELL NO. 06S 10E 30DCB1. DRILLED STOCK WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 6 IN, REPORTED DEPTH 437 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,990 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE IN CASING COVER, 1.10 FT ABOVE LSD (SINCE FEB. 10, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 250.76 FEET BELOW LAND SURFACE DATUM MAR 20, 1973.

LOWEST WATER LEVEL 333.06 FEET BELOW LAND SURFACE DATUM SEP 19, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 22, 1983	273.02	V	MAR 22, 1984	263.90	V	MAY 22, 1984	286.90	V	SEP 19, 1984	333.06	V
JAN 25, 1984	265.23	V									

WELL 06S 11E 06BBA1 SITE NUMBER 425617115120001

DRILLED DOMESTIC WATER-TABLE WELL IN GLENNS FERRY FORMATION, DIAM 6 IN, REPORTED DEPTH 445 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,680 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE IN WELL SEAL EAST SIDE, 0.60 FT ABOVE LSD (SINCE FEB. 15, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 107.21 FEET BELOW LAND SURFACE DATUM FEB 15, 1967.

LOWEST WATER LEVEL 125.17 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 22, 1984	124.84	S	SEP 17, 1984	125.17	S

WELL 14S 38E 15CDC1 SITE NUMBER 421156112002701

FORMERLY SITE ID NO. 421155112002801. DRILLED IRRIGATION WATER-TABLE WELL IN UNCONSOLIDATED ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN, REPORTED DEPTH 200 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 4,795 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE IN PUMPBASE WEST SIDE, 0.70 FT ABOVE LSD (SINCE JULY 25, 1979).

RECORDS AVAILABLE 1967, 1968, 1969 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 14.28 FEET BELOW LAND SURFACE DATUM MAY 30, 1984.

LOWEST WATER LEVEL 43.02 FEET BELOW LAND SURFACE DATUM SEP 20, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 09, 1983	17.22	S	MAR 28, 1984	16.70	S	JUL 18, 1984	15.5[illegible]	S	SEP 05, 1984	14.85	S
JAN 05, 1984	16.13	S	MAY 30	14.28	S						

WELL 15S 39E 23BBB1 SITE NUMBER 420639111522901

FORMERLY SITE ID NO. 420639111523101. DUG IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 42 IN, DEPTH 11.0 FT, CASING DEPTH NOT AVAILABLE. LSD 4,725.40 FT NGVD OF 1929. MP NO. 1 HASH MARK ON BENT LIP OF CASING NORTHWEST SIDE, 2.00 FT ABOVE LSD (SINCE JULY 19, 1967).

RECORDS AVAILABLE 1967, 1968, 1969 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.74 FEET BELOW LAND SURFACE DATUM MAR 28, 1973.

LOWEST WATER LEVEL 6.62 FEET BELOW LAND SURFACE DATUM SEP 22, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 09, 1983	1.17	S	MAR 28, 1984	1.04	S	JUL 18, 1984	2.49	S	SEP 05, 1984	4.14	S
JAN 05, 1984	1.08	S	MAY 30	3.20	S						

WELL 16S 39E 18CDA1 SITE NUMBER 420150111564701

FORMERLY SITE ID NO. 420152111564801. DRILLED IRRIGATION WATER-TABLE WELL IN UNCONSOLIDATED ALLUVIUM OF QUATERNARY AGE, DIAM 14 IN, REPORTED DEPTH 462 FT, CASED TO 462 FT, PERFORATED 204-212 FT, 238-242 FT, 252-265 FT, 271-273 FT. LSD 4,542.7 FT NGVD OF 1929. MP NO. 3 TOP OF 14-IN CASING NORTH SIDE, 2.20 FT BELOW LSD (SINCE MAY 23, 1979).

RECORDS AVAILABLE 1967 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.71 FEET BELOW LAND SURFACE DATUM JUL 03, 1969.

LOWEST WATER LEVEL 51.69 FEET BELOW LAND SURFACE DATUM SEP 23, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 09, 1983	25.93	S	MAR 28, 1984	22.00	S	JUL 18, 1984	26.96	S	SEP 05, 1984	26.86	S
JAN 05, 1984	23.98	S	MAY 30	21.22	S						

WELL 16S 40E 29CCB1 SITE NUMBER 420011111485501

FORMERLY SITE ID NO. 420014111490001, WELL NO. 16S 40E 29CBC1. DRILLED UNUSED WATER-TABLE WELL IN UNCONSOLIDATED ALLUVIUM OF QUATERNARY AGE, DIAM 10 IN, DEPTH 81.5 FT, CASING DEPTH NOT AVAILABLE. LSD 4,504.9 FT NGVD OF 1929. RECORDER INSTALLED NOV. 3, 1967. RECORDER REMOVED AUG. 31, 1971. DIGITAL RECORDER INSTALLED NOV. 21, 1978. MP NO. 1 TOP OF 10-IN CASING EAST SIDE, 1.90 FT ABOVE LSD (SINCE JULY 10, 1967).

RECORDS AVAILABLE 1967 - 1971, 1972 - 1976, 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.57 FEET BELOW LAND SURFACE DATUM APR 01, 1984.

LOWEST WATER LEVEL 23.42 FEET BELOW LAND SURFACE DATUM FEB 20, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1983	11.94	DEC 25, 1983	6.24	MAR 20, 1984	1.88	JUL 15, 1984	8.51
05	10.81	31	6.15	25	1.84	20	9.21
10	10.61	JAN 05, 1984	6.06	26	1.32	25	9.63
15	10.43	10	5.94	31	0.94	31	5.04
20	10.45	15	5.88	APR 01	0.57	AUG 05	4.75
25	10.59	20	5.84	05	1.99	10	5.77
31	10.77	25	5.94	10	1.76	15	6.49
NOV 05	10.91	31	5.94	MAY 30	5.26 S	20	5.39
10	10.86	FEB 05	6.06	31	5.33	25	5.66
15	10.45	10	6.13	JUN 05	5.61	31	6.21
20	10.01	15	5.54	10	5.13	SEP 05	6.71
25	9.66	20	5.58	15	5.60	10	7.11
30	8.96	25	5.60	20	5.73	15	7.64
DEC 05	8.56	29	5.61	25	6.33	20	8.24
10	7.59	MAR 05	5.72	30	6.79	25	8.09
15	6.75	10	5.47	JUL 05	7.29	30	8.26
20	6.44	15	5.44	10	7.90		

WELL 15N 43E 13BCA1 SITE NUMBER 443745111195401

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF PLEISTOCENE AGE, DIAM 6 IN, REPORTED DEPTH 155 FT, CASED TO 155 FT. LSD ABOUT 6,620 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN HOLE IN WELL SEAL, 1.50 FT ABOVE LSD (SINCE JUNE 12, 1974).

RECORDS AVAILABLE 1974 - 1975, 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 98.57 FEET BELOW LAND SURFACE DATUM JUL 05, 1984.

LOWEST WATER LEVEL 121.74 FEET BELOW LAND SURFACE DATUM APR 12, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATEP LEVEL	
NOV 28, 1983	108.29	S	MAR 02, 1984	113.38	S	JUL 05, 1984	98.57	S	SEP 19, 1984	99.94	S
JAN 11, 1984	110.09	S	MAY 29	104.71	S						

WELL 14N 43E 02AAC1 SITE NUMBER 443419111202401

DRILLED DOMESTIC WATER-TABLE WELL IN LAVA CREEK TUFF, DIAM 6 IN, REPORTED DEPTH 125 FT, CASED TO 19 FT. LSD ABOUT 6,516 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE IN WELL SEAL SOUTH SIDE, 4.40 FT BELOW LSD (SINCE JULY 25, 1969).

RECORDS AVAILABLE 1969 - 1973, 1974 - 1981, 1982 TO CURRENT YEAR.

HIGHEST WATER LEVEL 83.18 FEET BELOW LAND SURFACE DATUM MAY 17, 1972.

LOWEST WATER LEVEL 92.84 FEET BELOW LAND SURFACE DATUM DEC 19, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATEP LEVEL	
NOV 28, 1983	85.52	S	MAR 02, 1984	86.12	S	JUL 05, 1984	83.75	S	SEP 19, 1984	84.80	S
JAN 11, 1984	85.63	S	MAY 29	83.49	S						

WELL 13N 43E 15ADC1 SITE NUMBER 442709111213501

DRILLED COMMERCIAL WATER-TABLE WELL IN LAVA CREEK TUFF, DIAM 6 IN, REPORTED DEPTH 58 FT, CASED TO 38 FT, PERFORATED 38-58 FT. LSD ABOUT 6,300 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE IN WELL SEAL, 0.30 FT ABOVE LSD (SINCE JULY 10, 1974).

RECORDS AVAILABLE 1974 - 1975, 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 11.28 FEET BELOW LAND SURFACE DATUM MAY 21, 1976.

LOWEST WATER LEVEL 18.42 FEET BELOW LAND SURFACE DATUM NOV 14, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 28, 1983	16.23	S	MAR 02, 1984	16.42	S	JUL 05, 1984	13.99	S	SEP 19, 1984	17.38	S
JAN 11, 1984	16.21	S	MAY 29	11.42	S						

FREMONT COUNTY--CONTINUED

WELL 09N 39E 04AAC1 SITE NUMBER 440831111513901

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 5 1/2 IN, REPORTED DEPTH 870 FT, CASED TO 10 FT. LSD 5,668.20 FT NGVD OF 1929. AUG. 1967, WELL WAS CLEANED AND DEEPENED TO A REPORTED DEPTH OF 884.6 FT. MP NO. 3 TOP OF 1-IN NIPPLE IN CASING COVER SOUTHEAST SIDE, 2.26 FT ABOVE LSD (SINCE OCT. 21, 1983).

RECORDS AVAILABLE 1967 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 838.23 FEET BELOW LAND SURFACE DATUM SEP 20, 1984.

LOWEST WATER LEVEL 845.15 FEET BELOW LAND SURFACE DATUM JUN 24, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 21, 1983	842.72	S	JAN 12, 1984	840.89	S	MAY 29, 1984	841.41	S	SEP 20, 1984	838.23	S
NOV 22	841.55	S	MAR 27	841.13	S	JUL 19	840.88	S			

WELL 09N 40E 05DDD1 SITE NUMBER 440752111452901

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 5 1/2 IN, REPORTED DEPTH 730 FT, CASED TO 5 FT. LSD 5,535.40 FT NGVD OF 1929. AUG. 1967, WELL WAS CLEANED AND DEEPENED TO A REPORTED DEPTH OF 747.6 FT. MP NO. 4 TOP OF 1-IN NIPPLE WEST SIDE IN CASING COVER, 1.54 FT ABOVE LSD (SINCE OCT. 21, 1983).

RECORDS AVAILABLE 1967 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 691.97 FEET BELOW LAND SURFACE DATUM APR 10, 1971.

LOWEST WATER LEVEL 709.38 FEET BELOW LAND SURFACE DATUM MAY 28, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 21, 1983	702.71	S	JAN 13, 1984	701.30	S	MAY 29, 1984	702.39	S	SEP 20, 1984	698.51	S
NOV 22	701.79	S	MAR 27	702.18	S	JUL 19	701.55	S			

WELL 09N 42E 34DDA1 SITE NUMBER 440332111283201

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, REPORTED DEPTH 110 FT, CASED TO 7 FT. LSD ABOUT 5,228 FT NGVD OF 1929. MP NO. 2 BOTTOM OF HOLE IN PUMPBASE SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE MAR. 24, 1981).

RECORDS AVAILABLE 1962, 1969 - 1970, 1971 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 8.30 FEET BELOW LAND SURFACE DATUM MAR 20, 1972.

LOWEST WATER LEVEL 14.76 FEET BELOW LAND SURFACE DATUM MAR 03, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 28, 1983	10.14	S	MAR 06, 1984	12.18	S	JUL 06, 1984	14.99	P S	SEP 19, 1984	10.56	S
JAN 18, 1984	11.12	S	MAY 23	9.60	S						

WELL 08N 40E 01CAD1 SITE NUMBER 440253111412101

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 5 1/2 IN, REPORTED DEPTH 355 FT, CASING DEPTH NOT AVAILABLE. LSD 5,160.00 FT NGVD OF 1929. AUG. 1967, WELL WAS CLEANED AND DEEPENED TO A DEPTH OF 376 FT, 4-IN CASING 0-60 FT. AUG. 1, 1968, WELL HAD FILLED IN TO A DEPTH OF 338 FT. AUG. 24, 1971, CLEANED WELL TO 376 FT. INSTALLED 1 1/4-IN PIPE 0-375 FT, PERFORATED 350-365 FT. MP NO. 2 TOP OF 1 1/4-IN PIPE COUPLING SOUTH SIDE IN CASING COVER PLATE, 0.65 FT ABOVE LSD (SINCE MAY 15, 1980).

RECORDS AVAILABLE 1967 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 303.35 FEET BELOW LAND SURFACE DATUM OCT 20, 1970.

LOWEST WATER LEVEL 336.89 FEET BELOW LAND SURFACE DATUM MAY 15, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 22, 1983	329.75	S	MAR 27, 1984	330.83	S	JUL 19, 1984	330.11	S	SEP 19, 1984	326.91	S
JAN 12, 1984	329.20	S	MAY 30	330.59	S						

WELL 08N 40E 21DDD2 SITE NUMBER 435958111441402

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 382 FT, 3/4-IN PIEZOMETER TUBE 0-215 FT, PERFORATED 207.5-212.5 FT, GRAVEL FILL 192-382 FT, CONCRETE SEAL 175-192 FT, 382-423 FT. LSD 4,963.64 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE WEST SIDE, 1.07 FT ABOVE LSD (SINCE AUG. 28, 1967).

RECORDS AVAILABLE 1967 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 127.77 FEET BELOW LAND SURFACE DATUM SEP 19, 1984.

LOWEST WATER LEVEL 140.98 FEET BELOW LAND SURFACE DATUM APR 08, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 22, 1983	130.62	S	MAR 27, 1984	134.34	S	JUL 19, 1984	131.31	S	SEP 19, 1984	127.77	S
JAN 12, 1984	131.94	S	MAY 30	133.93	S						

WELL 08N 40E 21DDD3 SITE NUMBER 435958111441403

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 450 FT, 3/4-IN PIEZOMETER TUBE 0-445 FT, PERFORATED 437.5-442.5 FT, GRAVEL FILL 423-450 FT, CONCRETE SEAL 382-423 FT. LSD 4,963.64 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE WEST SIDE, 0.93 FT ABOVE LSD (SINCE AUG. 28, 1967).

RECORDS AVAILABLE 1967 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 128.06 FEET BELOW LAND SURFACE DATUM SEP 19, 1984.

LOWEST WATER LEVEL 141.19 FEET BELOW LAND SURFACE DATUM APR 08, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 22, 1983	130.92	S	MAR 27, 1984	134.66	S	JUL 19, 1984	131.42	S	SEP 19, 1984	128.06	S
JAN 12, 1984	132.32	S	MAY 30	134.18	S						

WELL 07N 39E 01CCD1 SITE NUMBER 435724111485101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 122 FT, CASED TO 84.3 FT. LSD 4,904.30 FT NGVD OF 1929. RECORDER INSTALLED OCT. 26, 1967. RECORDER REMOVED MAY 25, 1982. MP NO. 1 TOP OF 6-IN CASING, 0.56 FT ABOVE LSD (SINCE JULY 13, 1967).

RECORDS AVAILABLE 1967 - 1979, 1980 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 70.09 FEET BELOW LAND SURFACE DATUM SEP 14, 1973.

LOWEST WATER LEVEL 84.60 FEET BELOW LAND SURFACE DATUM MAR 10, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 22, 1983	76.46	S	MAR 05, 1984	80.51	S	JUL 23, 1984	73.93	S	SEP 19, 1984	72.37	S
JAN 17, 1984	78.84	S	MAY 30	78.97	S						

WELL 07N 39E 01CCD2 SITE NUMBER 435724111485102

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 55 FT, CASED TO 19 FT. LSD 4,904.30 FT NGVD OF 1929. SEPT. 27, 1971, INSTALLED 4-IN CASING 0-55 FT, PERFORATED 45-55 FT. RECORDER INSTALLED JUNE 21, 1968. RECORDER REMOVED DEC. 12, 1968. RECORDER INSTALLED MAY 12, 1969. RECORDER REMOVED OCT. 15, 1970. MP NO. 2 TOP OF 4-IN CASING COUPLING SOUTH SIDE, 1.29 FT ABOVE LSD (SINCE SEPT. 27, 1971).

RECORDS AVAILABLE 1967, 1968 - 1970, 1971 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 25.31 FEET BELOW LAND SURFACE DATUM AUG 02, 1969.

LOWEST WATER LEVEL WELL DRY MAR 25, 1968; FEB 05, 1969; MAR 27, 1969; APR 14, 1969; NOV 12, 1969; NOV 20, 1969; NOV 25, 1969; NOV 30, 1969; DEC 05, 1969; DEC 10, 1969; DEC 15, 1969; DEC 20, 1969; DEC 25, 1969; DEC 31, 1969; JAN 05, 1970; JAN 10, 1970; JAN 15, 1970; JAN 20, 1970; JAN 25, 1970; JAN 31, 1970; FEB 05, 1970; FEB 10, 1970; FEB 15, 1970; FEB 20, 1970; FEB 28, 1970; MAR 05, 1970; MAR 10, 1970; MAR 15, 1970; MAR 20, 1970; MAR 25, 1970; MAR 30, 1970; APR 05, 1970; APR 10, 1970; APR 15, 1970; APR 20, 1970; APR 25, 1970; NOV 24, 1970; DEC 21, 1970; JAN 28, 1971; MAR 08, 1971; MAR 30, 1971; MAY 03, 1971; OCT 27, 1971; NOV 30, 1971; JAN 06, 1972; FEB 01, 1972; APR 11, 1972; OCT 11, 1973; JAN 27, 1977; NOV 13, 1980; JAN 05, 1981; MAR 05, 1981; NOV 09, 1981; FEB 11, 1982; MAR 17, 1982; JAN 13, 1983; NOV 22, 1983; JAN 17, 1984; MAR 05, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 22, 1983	DRY		MAR 05, 1984	DRY		JUL 23, 1984	42.82	S	SEP 19, 1984	50.46	S
JAN 17, 1984	DRY		MAY 30	52.05	S						

WELL 07N 39E 07BDA1 SITE NUMBER 435705111542701

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 340 FT, CASED TO 75 FT, CONCRETE SEAL 69-75 FT. LSD 4,874.50 FT NGVD OF 1929. RECORDER INSTALLED APR. 26, 1974. RECORDER REMOVED SEPT. 26, 1980. MP NO. 1 TOP OF 6-IN CASING NORTH SIDE, 1.44 FT ABOVE LSD (SINCE APR. 25, 1974).

RECORDS AVAILABLE 1974 - 1979, 1980, 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 43.93 FEET BELOW LAND SURFACE DATUM NOV 20, 1975.

LOWEST WATER LEVEL 63.71 FEET BELOW LAND SURFACE DATUM MAR 17, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	57.23	S	MAR 27, 1984	60.51	S	JUL 23, 1984	55.68	S	SEP 19, 1984	54.45	S
JAN 13, 1984	58.45	S	MAY 30	57.51	S						

WELL 07N 39E 16DBB1 SITE NUMBER 435605111515803

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, REPORTED DEPTH 444 FT, CASED TO 215 FT, CONCRETE SEAL 185-215 FT. LSD 4,872.84 FT NGVD OF 1929. RECORDER INSTALLED JUNE 14, 1969. RECORDER REMOVED MAY 28, 1982. MP NO. 1 TOP OF 8-IN CASING EAST SIDE, 1.37 FT ABOVE LSD (SINCE MAR. 3, 1969).

RECORDS AVAILABLE 1969 - 1979, 1980 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 52.41 FEET BELOW LAND SURFACE DATUM OCT 03, 1974.

LOWEST WATER LEVEL 61.80 FEET BELOW LAND SURFACE DATUM APR 15, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	55.25	S	MAR 27, 1984	58.26	S	JUL 23, 1984	54.17	S	SEP 19, 1984	52.55	S
JAN 17, 1984	56.67	S	MAY 30	56.90	S						

WELL 07N 39E 16DBB2 SITE NUMBER 435605111515802

DRILLED OBSERVATION WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 12-8-6 IN, REPORTED DEPTH 107 FT, 12-IN CASING 0-56 FT, 8-IN CASING 0-96 FT, 6-IN CASING 90-105 FT, SCREENED 96-101 FT. LSD 4,872.64 FT NGVD OF 1929. RECORDER INSTALLED JUNE 14, 1969. RECORDER REMOVED MAY 28, 1982. MP NO. 1 TOP OF 8-IN CASING EAST SIDE, 0.91 FT ABOVE LSD (SINCE MAR. 3, 1969).

RECORDS AVAILABLE 1969 - 1979, 1980 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 21.45 FEET BELOW LAND SURFACE DATUM OCT 04, 1969.

LOWEST WATER LEVEL 41.23 FEET BELOW LAND SURFACE DATUM MAR 31, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	28.80	S	MAR 27, 1984	38.54	S	JUL 23, 1984	23.51	S	SEP 19, 1984	23.91	S
JAN 17, 1984	33.64	S	MAY 30	31.69	S						

WELL 07N 39E 16DBB3 SITE NUMBER 435605111515801

DRILLED OBSERVATION WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 8 TO 6 IN, REPORTED DEPTH 38 FT, 8-IN CASING 0-28 FT, 6-IN CASING 25-37 FT, SCREENED 28-33 FT. LSD 4,872.54 FT NGVD OF 1929. RECORDER INSTALLED JUNE 14, 1969. RECORDER REMOVED MAY 28, 1982. MP NO. 1 TOP OF 8-IN CASING EAST SIDE, 0.69 FT ABOVE LSD (SINCE MAR. 11, 1969).

RECORDS AVAILABLE 1969 - 1979, 1980 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.83 FEET BELOW LAND SURFACE DATUM JUL 29, 1978.

LOWEST WATER LEVEL WELL DRY FEB 15, 1973; FEB 20, 1973; FEB 28, 1973; MAR 05, 1973; MAR 10, 1973; MAR 15, 1973; MAR 20, 1973; MAR 25, 1973; MAR 31, 1973; APR 05, 1973.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	11.31	S	MAR 27, 1984	26.47	S	JUL 23, 1984	5.10	S	SEP 19, 1984	6.26	S
JAN 17, 1984	19.39	S	MAY 30	8.48	S						

WELL 07N 40E 05DBC1 SITE NUMBER 435736111460201

DRIVEN OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 39.3 FT, CASED TO 39.3 FT, SAND POINT 37.3-39.3 FT. LSD 4,919.86 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 1 1/4-IN PIPE NORTH SIDE, 0.70 FT ABOVE LSD (SINCE NOV. 8, 1966).

RECORDS AVAILABLE 1966 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.75 FEET BELOW LAND SURFACE DATUM AUG 05, 1974.

LOWEST WATER LEVEL 14.71 FEET BELOW LAND SURFACE DATUM MAR 15, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 22, 1983	7.25	S	MAR 05, 1984	11.76	S	JUL 19, 1984	4.10	S	SEP 19, 1984	4.21	S
JAN 17, 1984	9.80	S	MAY 30	10.29	S						

WELL 07N 40E 19ADD2 SITE NUMBER 435516111464004

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 355 FT, 10-IN CASING 0-18.6 FT, 8-IN CASING 0-107 FT, 6-IN CASING 0-146 FT, CONCRETE SEAL 135-144 FT. LSD 4,856.33 FT NGVD OF 1929. RECORDER INSTALLED JULY 3, 1968. RECORDER REMOVED AUG 24, 1982. MP NO. 1 TOP OF 6-IN CASING EAST SIDE, 0.94 FT ABOVE LSD (SINCE JULY 3, 1968).

RECORDS AVAILABLE 1968 - 1979, 1980 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 24.41 FEET BELOW LAND SURFACE DATUM SEP 26, 1974.

LOWEST WATER LEVEL 36.22 FEET BELOW LAND SURFACE DATUM APR 20, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	28.26	S	MAR 05, 1984	31.74	S	JUL 23, 1984	26.95	S	SEP 19, 1984	24.97	S
JAN 17, 1984	30.20	S	MAY 30	30.88	S						

WELL 07N 40E 19ADD3 SITE NUMBER 435516111464003

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE. DIAM 8 TO 4 IN, REPORTED DEPTH 40.5 FT, 8-IN CASING 0-31.3 FT, 4-IN CASING 29-40.5 FT, SCREENED 33.5-38.5 FT. LSD 4,856.33 FT NGVD OF 1929. RECORDER INSTALLED FEB. 13, 1970. RECORDER REMOVED AUG. 24, 1982. MP NO. 1 TOP OF 8-IN CASING EAST SIDE, 0.99 FT ABOVE LSD (SINCE JULY 31, 1968).

RECORDS AVAILABLE 1968 - 1969, 1970 - 1979, 1980 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.66 FEET BELOW LAND SURFACE DATUM AUG 14, 1972.

LOWEST WATER LEVEL 27.10 FEET BELOW LAND SURFACE DATUM MAR 25, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	15.99	S	MAR 05, 1984	19.58	S	JUL 23, 1984	11.77	S	SEP 19, 1984	12.07	S
JAN 17, 1984	17.67	S	MAY 30	17.21	S						

WELL 07N 40E 19ADD4 SITE NUMBER 435516111464002

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 TO 4 IN, REPORTED DEPTH 20.5 FT, 8-IN CASING 0-10.7 FT, 4-IN CASING 9-20.5 FT, SCREENED 13.5-18.5 FT. LSD 4,856.93 FT NGVD OF 1929. RECORDER INSTALLED FEB. 13, 1970. RECORDER REMOVED SEPT. 29, 1980. MP NO. 1 TOP OF 8-IN CASING EAST SIDE, 1.14 FT ABOVE LSD (SINCE JULY 31, 1968).

RECORDS AVAILABLE 1968 - 1969, 1970 - 1979, 1980, 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.08 FEET BELOW LAND SURFACE DATUM JUL 03, 1972.

LOWEST WATER LEVEL 11.66 FEET BELOW LAND SURFACE DATUM APR 20, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	5.40	S	MAR 05, 1984	8.27	S	JUL 23, 1984	1.45	S	SEP 19, 1984	3.06	S
JAN 17, 1984	6.18	S	MAY 30	4.65	S						

WELL 07N 40E 23CCB1 SITE NUMBER 435457111430001

DRIVEN OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 50.2 FT, CASED TO 50.2 FT, SANDPOINT 48.2-50.2 FT. LSD 4,923.83 FT NGVD OF 1929. MP NO. 1 TOP OF 1 1/4-IN PIPE EAST SIDE, 1.23 FT ABOVE LSD (SINCE NOV. 8, 1966).

RECORDS AVAILABLE 1966 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.75 FEET BELOW LAND SURFACE DATUM AUG 15, 1968.

LOWEST WATER LEVEL WELL DRY MAR 20, 1967; APR 24, 1967; MAY 29, 1967; MAR 08, 1968; MAR 29, 1968; MAY 01, 1968; MAR 21, 1969; APR 25, 1969; MAY 23, 1969; MAR 24, 1970; APR 29, 1970; JUN 01, 1970; MAR 23, 1971; APR 30, 1971; JUN 03, 1971; MAR 20, 1972; MAR 19, 1973; APR 17, 1973; APR 23, 1973; MAY 21, 1973; MAR 08, 1974; MAY 24, 1974; APR 21, 1975; JUN 04, 1975; MAY 17, 1976; MAY 21, 1976; JUN 08, 1976; JUN 09, 1976; MAR 29, 1977; APR 27, 1977; MAY 09, 1977; JUN 14, 1977; JUN 22, 1977; JAN 06, 1978; JAN 20, 1978; FEB 25, 1978; MAR 09, 1978; MAR 22, 1978; APR 13, 1978; APR 17, 1978; APR 29, 1978; MAY 06, 1978; MAY 16, 1978; JUN 07, 1978; JUN 23, 1978; JUN 27, 1978; JUL 06, 1978; APR 17, 1979; MAY 16, 1979; JUN 12, 1979; MAR 19, 1980; MAR 05, 1981; MAY 12, 1981; MAR 17, 1982; MAY 28, 1982; MAR 25, 1983; MAY 13, 1983; MAY 30, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	29.35	S	MAR 28, 1984	47.99	S	JUL 23, 1984	44.74	S	SEP 19, 1984	33.61	S
JAN 17, 1984	36.65	S	MAY 30	DRY							

WELL 07N 42E 06DDA1 SITE NUMBER 435727111321901

DRILLED IRRIGATION WATER-TABLE WELL IN SILICIC VOLCANIC ROCK OF TERTIARY AGE, DIAM 20 IN, REPORTED DEPTH 910 FT, CASED TO 125 FT. LSD 5,264.46 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. SOME MEASUREMENTS AFTER APR. 21, 1975, MADE BY U.S. BUREAU OF RECLAMATION. MP NO. 1 TOP OF CASING SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE MAR. 18, 1982).

RECORDS AVAILABLE 1962, 1966 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 231.40 FEET BELOW LAND SURFACE DATUM NOV 22, 1971.

LOWEST WATER LEVEL 288.83 FEET BELOW LAND SURFACE DATUM AUG 13, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 26, 1984	270.48	S	SEP 19, 1984	254.29	S

FREMONT COUNTY--CONTINUED

WELL 07N 42E 17BAD1 SITE NUMBER 435615111315001

DRILLED OBSERVATION WATER-TABLE WELL IN HUCKLEBERRY RIDGE TUFF, DIAM 10 TO 6 IN. REPORTED DEPTH 500 FT, 10-IN CASING 0-37.5 FT, 6-IN CASING 0-500 FT, PERFORATED 427.7-500 FT, CONCRETE SEAL 0-37.5 FT. LSD 5,318.70 FT NGVD OF 1929. RECORDER INSTALLED OCT. 17, 1972. RECORDER REMOVED MAY 28, 1982. MP NO. 1 TOP OF 6-IN CASING WEST SIDE, 0.80 FT ABOVE LSD (SINCE OCT. 17, 1972).

RECORDS AVAILABLE 1972 - 1979, 1980 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 186.06 FEET BELOW LAND SURFACE DATUM JUN 07, 1976.

LOWEST WATER LEVEL 345.12 FEET BELOW LAND SURFACE DATUM JUL 16, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	324.18	V	MAR 26, 1984	324.03	V	JUL 23, 1984	343.81	T	SEP 19, 1984	329.44	S
JAN 16, 1984	323.49	V	MAY 30	326.38	V						

WELL 07N 42E 19ABA1 SITE NUMBER 435532111324101

DRILLED OBSERVATION WATER-TABLE WELL IN HUCKLEBERRY RIDGE TUFF, DIAM 4 TO 1 1/2 IN , REPORTED DEPTH 500 FT, 4-IN CASING 0-45 FT, 1 1/2-IN CASING 0-500 FT, PERFORATED 480-500 FT. LSD 5,332.98 FT NGVD OF 1929. MP NO. 1 TOP OF 4-IN CASING SOUTH SIDE, 1.51 FT ABOVE LSD (SINCE JULY 27, 1972).

RECORDS AVAILABLE 1972 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 137.04 FEET BELOW LAND SURFACE DATUM JUN 01, 1976.

LOWEST WATER LEVEL 349.37 FEET BELOW LAND SURFACE DATUM MAY 13, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	341.12	V	MAR 26, 1984	344.17	V	JUL 23, 1984	339.50	T	SEP 19, 1984	334.28	V
JAN 16, 1984	342.65	V	MAY 30	338.12	V						

WELL 07N 43E 12BCB1 SITE NUMBER 435402111201101

DRILLED OBSERVATION WATER-TABLE WELL IN HUCKLEBERRY RIDGE TUFF, DIAM 6 IN, REPORTED DEPTH 420 FT, CASED TO 420 FT, PERFORATED 390-420 FT. LSD 5,720.20 FT NGVD OF 1929. MP NO. 2 TOP OF 1 1/2-IN HOLE IN MONITOR WELL CAF NORTH SIDE, 1.76 FT ABOVE LSD (SINCE NOV. 23, 1983).

RECORDS AVAILABLE 1975, 1976 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 244.51 FEET BELOW LAND SURFACE DATUM JUN 13, 1976.

LOWEST WATER LEVEL 332.18 FEET BELOW LAND SURFACE DATUM APR 21, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1983	293.81	S	MAR 26, 1984	302.20	S	JUL 17, 1984	245.49	S	SEP 19, 1984	258.92	S
JAN 16, 1984	302.34	S	MAY 24	249.49	S						

WELL 07N 44E 02AAA1 SITE NUMBER 435608111131101

DRILLED DOMESTIC WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 6 IN, NOV. 29, 1976, DEPTH 213.5 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 6,040 FT NGVD OF 1929. MP NO. 3 TOP OF CASING NORTH SIDE, 2.32 FT ABOVE LSD (SINCE JULY 14, 1980).

RECORDS AVAILABLE 1969 - 1970, 1971 - 1975, 1976 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 96.12 FEET BELOW LAND SURFACE DATUM SEP 19, 1984.

LOWEST WATER LEVEL 133.09 FEET BELOW LAND SURFACE DATUM MAR 09, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 26, 1984	119.95	V	SEP 19, 1984	96.12	V

WELL 07N 03W 34ABD1 SITE NUMBER 435424116403701

FORMERLY SITE ID NO. 435426116403701. DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DEPTH 22.8 FT, 1 1/4-IN PIEZOMETER TUBE 0-23.1 FT, PERFORATED 18.0-21.0 FT, GRAVEL FILL 0-35 FT, CONCRETE SEAL 35-45 FT. LSD 2,267.80 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MEASUREMENTS PRIOR TO DEC. 3, 1971, MADE BY U.S. BUREAU OF RECLAMATION. MP NO. 1 TOP OF 1 1/4-IN PIPE NORTHWEST SIDE, 1.06 FT ABOVE LSD (SINCE JULY 24, 1968).

RECORDS AVAILABLE 1968 - 1971, 1972 - 1978, 1979 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.82 FEET BELOW LAND SURFACE DATUM OCT 16, 1979.

LOWEST WATER LEVEL 3.46 FEET BELOW LAND SURFACE DATUM APR 10, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 21, 1983	2.20	S	MAR 27, 1984	2.41	S	JUL 19, 1984	1.30	S	SEP 25, 1984	1.46	S
JAN 23, 1984	2.57	S	MAY 21	2.90	S						

WELL 07N 03W 34ABD2 SITE NUMBER 435424116403702

FORMERLY SITE ID NO. 435426116403702. DRILLED OBSERVATION ARTESIAN WELL IN IDAHO GROUP, DEPTH 54.4 FT, 3/4-IN PIEZOMETER TUBE 0-56.2 FT, PERFORATED 51.2-52.7 FT, GRAVEL FILL 45-55 FT, CONCRETE SEAL 35-45 FT, 55-70 FT. LSD 2,267.80 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MEASUREMENTS PRIOR TO DEC. 3, 1971, MADE BY U.S. BUREAU OF RECLAMATION. MP NO. 1 TOP OF 3/4-IN PIPE NORTHWEST SIDE, 1.06 FT ABOVE LSD (SINCE JULY 24, 1968).

RECORDS AVAILABLE 1968 - 1971, 1972 - 1978, 1979 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.06 FEET ABOVE LAND SURFACE DATUM AUG 27, 1970.

LOWEST WATER LEVEL 1.44 FEET BELOW LAND SURFACE DATUM MAR 14, 1977.

WATER LEVELS IN FEET ABOVE OR BELOW(-) LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 21, 1983	-0.32	S	MAR 27, 1984	-0.48	S	JUL 19, 1984	0.76	S	SEP 25, 1984	0.78	S
JAN 23, 1984	-0.59	S	MAY 21	0.48	S						

WELL 07N 03W 34ABD3 SITE NUMBER 435424116403703

FORMERLY SITE ID NO. 435426116403703. DRILLED OBSERVATION ARTESIAN WELL IN IDAHO GROUP, DIAM 4 TO 3/4 IN, DEPTH 85.5 FT, 4-IN CASING 5.52 FT ABOVE LSD TO 1.86 FT BELOW LSD, 3/4-IN PIEZOMETER TUBE 1.86-85.0 FT, PERFORATED 80.0-81.5 FT, GRAVEL FILL 70-85.5 FT, CONCRETE SEAL 55-70 FT. LSD 2,267.80 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MEASUREMENTS PRIOR TO NOV. 10, 1971, MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED APR. 17, 1969. RECORDER REMOVED MAY 28, 1971. MP NO. 2 TOP OF 4-IN CASING NORTHWEST SIDE, 5.52 FT ABOVE LSD (SINCE JULY 24, 1968).

RECORDS AVAILABLE 1968, 1969 - 1971, 1972 - 1978, 1979 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 4.41 FEET ABOVE LAND SURFACE DATUM MAY 20, 1976.

LOWEST WATER LEVEL 1.83 FEET ABOVE LAND SURFACE DATUM APR 1[illegible], 1970.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 21, 1983	2.72	S	MAY 21, 1984	3.57	S	JUL 19, 1984	3.69	S	SEP 25, 1984	3.68	S
MAR 27, 1984	2.68	S									

WELL 07N 02W 29BBA2 SITE NUMBER 435523116362601

FORMERLY SITE ID NO. 435524116362801. DRILLED OBSERVATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 6 IN, REPORTED DEPTH 301.7 FT, CASED TO 301.7 FT, OPEN BOTTOM. LSD 2,396.60 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. NOV. 10, 1971, WELL HAD FILLED IN TO A DEPTH OF 291.3 FT. MEASUREMENTS PRIOR TO NOV. 10, 1971, MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED JUNE 26, 1969. RECORDER REMOVED MAY 28, 1971. MP NO. 1 TOP OF 6-IN CASING SOUTH SIDE, 0.90 FT ABOVE LSD (SINCE JUNE 26, 1969).

RECORDS AVAILABLE 1969 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 19.73 FEET BELOW LAND SURFACE DATUM OCT 30, 1974.

LOWEST WATER LEVEL 23.85 FEET BELOW LAND SURFACE DATUM JUN 26, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 21, 1983	19.93	S	MAR 27, 1984	21.97	S	JUL 19, 1984	21.62	S	SEP 25, 1984	19.90	S
JAN 23, 1984	21.03	S	MAY 21	22.48	S						

WELL 07N 02W 35ABA1 SITE NUMBER 435427116321801

FORMERLY SITE ID NO. 435430116322301, WELL NO. 07N 02W 35ABB1. DUG DOMESTIC WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 36 IN, DEPTH 99.3 FT, CONCRETE CASING, CASING DEPTH NOT AVAILABLE. WATER LEVEL INFLUENCED BY LOCAL IRRIGATION. LSD ABOUT 2,451 FT NGVD OF 1929. MEASUREMENTS PRIOR TO AUG. 1948 MADE BY R. J. HOWARD. MP NO. 4 TOP OF INNER EDGE OF WOODEN CURB NORTH SIDE, 0.50 FT ABOVE LSD (SINCE MAR. 19, 1953).

RECORDS AVAILABLE 1941 - 1942, 1948 - 1966, 1967 - 1970, 1971 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 67.50 FEET BELOW LAND SURFACE DATUM OCT 12. 1961.

LOWEST WATER LEVEL 83.80 FEET BELOW LAND SURFACE DATUM MAY 20, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	
SEP 25, 1984	70.91	S

WELL 06N 02W 14BCA1 SITE NUMBER 435139116324901

FORMERLY SITE ID NO. 435140116325101. DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DEPTH 21.4 FT, 1 1/4-IN PIEZOMETER TUBE 0-25 FT, PERFORATED 18.0-21.0 FT, GRAVEL FILL 0-25 FT, CONCRETE SEAL 25-45 FT. LSD 2,341.80 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MEASUREMENTS PRIOR TO NOV. 10, 1971, MADE BY U.S. BUREAU OF RECLAMATION. MP NO. 2 TOP OF 1 1/4-IN PIPE WEST SIDE, 4.34 FT ABOVE LSD (SINCE APR. 25, 1969).

RECORDS AVAILABLE 1968 - 1970, 1971 - 1977, 1978 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.25 FEET BELOW LAND SURFACE DATUM DEC 26, 1968.

LOWEST WATER LEVEL 4.58 FEET BELOW LAND SURFACE DATUM MAR 14, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 21, 1983	2.82	S	MAR 27, 1984	2.97	S	JUL 19, 1984	2.76	S	SEP 25, 1984	3.28	S
JAN 23, 1984	2.97	S	MAY 21	2.96	S						

WELL 06N 02W 14BCA2 SITE NUMBER 435139116324902

FORMERLY SITE ID NO. 435140116325102. DRILLED OBSERVATION ARTESIAN WELL IN IDAHO GROUP. DIAM 4 TO 3/4 IN, DEPTH 84.2 FT, 4-IN CASING 4.23 FT ABOVE LSD TO 2.05 FT BELOW LSD, 3/4-IN PIEZOMETER TUBE 2.05-84.2 FT, PERFORATED 79.5-81.0 FT, GRAVEL FILL 45-86 FT, CONCRETE SEAL 25-45 FT. LSD 2,341.80 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MEASUREMENTS PRIOR TO NOV. 10, 1971, MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED APR. 16, 1969. RECORDER REMOVED MAY 28, 1971. MP NO. 2 TOP OF 4-IN CASING WEST SIDE, 4.23 FT ABOVE LSD (SINCE APR. 16, 1969).

RECORDS AVAILABLE 1968, 1969 - 1970, 1971 - 1977, 1978 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.64 FEET ABOVE LAND SURFACE DATUM AUG 23, 1968.

LOWEST WATER LEVEL 2.15 FEET BELOW LAND SURFACE DATUM FEB 26, 1981.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 21, 1983	1.09	S	MAY 21, 1984	1.13	S	JUL 19, 1984	1.59	S	SEP 25, 1984	1.20	S
MAR 27, 1984	0.56	S									

WELL 06N 01W 18DAA2 SITE NUMBER 435125116293201

FORMERLY SITE ID NO. 435125116293501. DRILLED DOMESTIC WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 4 IN, DEPTH 30.9 FT, CASED TO 22 FT. LSD 2,371.90 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MEASUREMENTS PRIOR TO NOV. 9, 1971, MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED OCT. 17, 1968. RECORDER REMOVED MAY 28, 1971. MP NO. 1 TOP OF 4-IN CASING NORTH SIDE, 0.26 FT ABOVE LSD (SINCE NOV. 9, 1967).

RECORDS AVAILABLE 1967, 1968 - 1970, 1971 - 1977, 1978 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.04 FEET BELOW LAND SURFACE DATUM AUG 24, 1970.

LOWEST WATER LEVEL 8.57 FEET BELOW LAND SURFACE DATUM MAR 14, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 21, 1983	6.90	S	MAR 27, 1984	7.54	S	JUL 19, 1984	5.11	S	SEP 25, 1984	6.21	S
JAN 23, 1984	6.68	S	MAY 21	7.59	S						

SITE NUMBER 425635114382302

WELL 05S 15E 35DBD2

FORMERLY SITE ID NO. 425634114382601, WELL NO. 05S 15E 35DBC2. DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 5 IN, DEPTH 165.1 FT CASED TO 126 FT. LSD 3,627.31 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MP NO. 1 TOP OF 5-IN CASING EAST SIDE, 1.29 FT ABOVE LSD (SINCE JUNE 6, 1972).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 120.84 FEET BELOW LAND SURFACE DATUM SEP 22, 1972.

LOWEST WATER LEVEL 150.39 FEET BELOW LAND SURFACE DATUM JUL 29, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 24, 1983	125.42	S	JAN 24, 1984	128.14	S	APR 23, 1984	129.65	S	JUL 16, 1984	126.71	S
NOV 21	126.09	S	FEB 24	129.25	S	MAY 22	129.64	S	AUG 21	124.94	S
DEC 20	126.61	S	MAR 20	130.32	S	JUN 20	127.87	S	SEP 25	122.80	S

SITE NUMBER 424353114494701

WELL 08S 14E 16CBB1

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 53.0 FT, GALVANIZED IRON CASING TO BASALT BEDROCK. SEPT. 1957 WELL WAS CASED TO 50 FT WITH 5-IN ALUMINUM PIPE. LSD 3,175.27 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED OCT. 6, 1954. RECORDER REMOVED AUG. 10, 1971. DIGITAL RECORDER INSTALLED JULY 19, 1977. MP NO. 3 TOP OF 5-IN ALUMINUM CASING FLANGE WEST SIDE, 1.00 FT ABOVE LSD (SINCE SEPT. 11, 1957).

RECORDS AVAILABLE 1951 - 1953, 1954 - 1971, 1972 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 36.50 FEET BELOW LAND SURFACE DATUM SEP 22, 1953.

LOWEST WATER LEVEL 40.71 FEET BELOW LAND SURFACE DATUM MAY 13, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	38.46	DEC 25, 1983	38.97	MAR 25, 1984	39.65	JUN 30, 1984	39.97
10	38.47	31	39.05	31	39.68	JUL 05	40.07
14	38.43	JAN 05, 1984	39.12	APR 05	39.72	10	40.11
15	38.44	10	39.13	10	39.75	15	40.13
17	38.43	15	39.16	15	39.81	20	40.06
20	38.46	20	39.22	20	39.84	25	39.84
25	38.54	25	39.26	25	39.94	31	39.75
31	38.51	31	39.34	30	40.04	AUG 05	39.56
NOV 05	38.54	FEB 05	39.39	MAY 05	40.01	10	39.51
07	38.51	10	39.39	10	40.14	15	39.37
10	38.55	15	39.42	15	40.25	20	39.22
15	38.60	20	39.45	20	40.21	25	39.14
20	38.56	25	39.48	25	40.26	31	39.04
25	38.62	29	39.54	31	40.39	SEP 05	38.95
30	38.70	MAR 05	39.55	JUN 05	40.18	10	38.88
DEC 05	38.78	09	39.57	10	40.00	15	38.82
10	38.81	10	39.57	15	39.71	20	38.78
15	38.86	15	39.55	20	39.81	25	38.69
20	38.89	20	39.62	25	39.85	30	38.60

SITE NUMBER 424416114370201

WELL 08S 16E 18AAA1

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 197 FT, CASED TO 6 FT. LSD 3,516.30 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF 7/8-IN HOLE IN WELL SEAL WEST SIDE, 0.80 FT ABOVE LSD (SINCE SEPT. 23, 1971).

RECORDS AVAILABLE 1951 - 1954, 1956 - 1968, 1969 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 149.32 FEET BELOW LAND SURFACE DATUM OCT 22, 1952.

LOWEST WATER LEVEL 174.27 FEET BELOW LAND SURFACE DATUM APR 04, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 14, 1984	170.40	S	SEP 10, 1984	163.10	V

GOODING COUNTY--CONTINUED

WELL 09S 14E 03BAA1 SITE NUMBER 424053114480301

DRILLED DOMESTIC AND STOCK WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 99.0 FT, CASED TO BEDROCK. LSD 3,203.24 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MAR. 24, 1972, WELL HAD FILLED IN TO A DEPTH OF 93.5 FT. MP NO. 2 TOP OF CASING, 0.70 FT ABOVE LSD (SINCE OCT. 18, 1951).

RECORDS AVAILABLE 1929, 1951 TO CURRENT YEAR.

HIGHEST WATER LEVEL 69.68 FEET BELOW LAND SURFACE DATUM OCT 16, 1956.

LOWEST WATER LEVEL 75.39 FEET BELOW LAND SURFACE DATUM MAY 19, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	72.62	S	MAR 14, 1984	74.08	S	JUL 10, 1984	74.73	S	SEP 10, 1984	73.91	S
JAN 24, 1984	73.56	S	MAY 14	74.39	S						

WELL 09S 16E 07DCA1 SITE NUMBER 423920114371501

DRILLED DOMESTIC AND STOCK WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 128.0 FT, CASED TO 32 FT. LSD 3,447.50 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF 1/2-IN HOLE IN WELL SEAL, 4.56 FT BELOW LSD (SINCE JULY 19, 1971).

RECORDS AVAILABLE 1949 TO CURRENT YEAR.

HIGHEST WATER LEVEL 89.25 FEET BELOW LAND SURFACE DATUM SEP 30, 1982.

LOWEST WATER LEVEL 114.74 FEET BELOW LAND SURFACE DATUM MAR 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	104.49	S	MAR 14, 1984	111.80	S	JUL 10, 1984	105.34	S	SEP 10, 1984	96.33	V
JAN 25, 1984	110.89	S	MAY 14	112.95	S						

WELL 08N 34E 17CCC3 SITE NUMBER 440058112293601

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 440 FT, CASED TO 510 FT, PERFORATED 340-350 FT, PLUGGED BACK WITH CONCRETE SEAL 440-462 FT. LSD 4,808.92 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 1 TOP OF 3/4-IN PIPE EAST SIDE, 3.76 FT ABOVE LSD (SINCE FEB. 10, 1970).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 38.94 FEET BELOW LAND SURFACE DATUM APR 16, 1976.

LOWEST WATER LEVEL 67.60 FEET BELOW LAND SURFACE DATUM AUG 06, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	47.28	S	MAR 01, 1984	43.69	S	JUL 10, 1984	54.64	S	SEP 24, 1984	48.22	S
JAN 13, 1984	45.25	S	MAY 24	42.41	S						

WELL 08N 34E 17CCC4 SITE NUMBER 440058112293602

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 545 FT, 1-IN PIEZOMETER TUBE 0-519 FT, PERFORATED 511.5-516.5 FT, 6-IN CASING 0-510 FT, GRAVEL FILL 462-545 FT, CONCRETE SEAL 440-462 FT, 545-562 FT. LSD 4,808.92 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 1 TOP OF 1-IN PIPE EAST SIDE, 3.43 FT ABOVE LSD (SINCE FEB. 10, 1970).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 22.82 FEET BELOW LAND SURFACE DATUM DEC 02, 1969.

LOWEST WATER LEVEL 60.69 FEET BELOW LAND SURFACE DATUM SEP 21, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	51.29	S	MAR 01, 1984	48.27	V	JUL 10, 1984	45.47	S	SEP 24, 1984	49.73	S
JAN 13, 1984	49.13	V	MAY 24	44.21	S						

WELL 08N 34E 17CCC5 SITE NUMBER 440058112293603

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 888 FT, 3/4-IN PIEZOMETER TUBE 0-610 FT, PERFORATED 602.5-607.5 FT, GRAVEL FILL 562-888, CONCRETE SEAL 545-562 FT, 888-914 FT. LSD 4,808.92 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 1 TOP OF 3/4-IN PIPE EAST SIDE, 3.27 FT ABOVE LSD (SINCE FEB. 10, 1970).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 163.41 FEET BELOW LAND SURFACE DATUM APR 16, 1976.

LOWEST WATER LEVEL 176.54 FEET BELOW LAND SURFACE DATUM AUG 06, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	168.43	S	MAR 01, 1984	167.08	V	JUL 10, 1984	172.02	S	SEP 24, 1984	168.70	S
JAN 12, 1984	167.86	V	MAY 24	167.61	S						

WELL 08N 34E 17CCC6 SITE NUMBER 440058112293604

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 1,006.5 FT, 3/4-IN PIEZOMETER TUBE 0-930 FT, PERFORATED 922.5-927.5 FT, GRAVEL FILL 914-1,006.5 FT, CONCRETE SEAL 888-914 FT. LSD 4,808.92 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 1 TOP OF 3/4-IN PIPE EAST SIDE, 2.97 FT ABOVE LSD (SINCE FEB. 10, 1970).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 220.17 FEET BELOW LAND SURFACE DATUM MAY 15, 1974.

LOWEST WATER LEVEL 227.05 FEET BELOW LAND SURFACE DATUM SEP 08, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	224.83	S	MAR 01, 1984	223.35	S	JUL 10, 1984	223.72	S	SEP 24, 1984	224.52	S
JAN 13, 1984	223.90	S	MAY 24	222.82	S						

WELL 08N 34E 17CCC7 SITE NUMBER 440058112293605

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 47.6 FT, CASED TO 47.5 FT, PERFORATED 40-47 FT. LSD 4,808.92 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 1 TOP OF 6-IN CASING EAST SIDE, 0.90 FT ABOVE LSD (SINCE JUNE 24, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 21.36 FEET BELOW LAND SURFACE DATUM APR 25, 1972.

LOWEST WATER LEVEL 40.29 FEET BELOW LAND SURFACE DATUM SEP 23, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	26.98	S	MAR 01, 1984	22.87	S	JUL 10, 1984	26.58	S	SEP 24, 1984	23.86	S
JAN 13, 1984	24.28	S	MAY 24	21.54	S						

WELL 07N 33E 35BCC1 SITE NUMBER 435332112331601

FORMERLY SITE ID NO. 435336112331801, WELL NO. 07N 33E 35BBC1. BORED OBSERVATION WATER-TABLE WELL IN SANDY SILT OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 54.5 FT, CASED TO 54.5 FT, SANDPOINT 52.4-54.5 FT. LSD ABOUT 4,784 FT NGVD OF 1929. MP NO. 1 TOP OF 1 1/4-IN PIPE WEST SIDE, 1.80 FT ABOVE LSD (SINCE MAY 26, 1967).

RECORDS AVAILABLE 1967 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 14.00 FEET BELOW LAND SURFACE DATUM SEP 13, 1983.

LOWEST WATER LEVEL 30.72 FEET BELOW LAND SURFACE DATUM MAY 15, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 01, 1984	25.52	S	SEP 24, 1984	19.13	S

WELL 07N 34E 04CDC1 SITE NUMBER 435728112281101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 57.3 FT, CASED TO 41 FT. LSD 4,791.76 FT NGVD OF 1929. OCT 4, 1972, WELL HAD FILLED IN TO A DEPTH OF 51.2 FT. RECORDER INSTALLED FEB. 13, 1957. RECORDER REMOVED AUG. 19, 1971. MP NO. 2 TOP OF HOLE IN CASING COVER, 2.02 FT ABOVE LSD (SINCE SEPT. 10, 1975).

RECORDS AVAILABLE 1956, 1957 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.55 FEET BELOW LAND SURFACE DATUM MAY 02, 1956.

LOWEST WATER LEVEL 30.50 FEET BELOW LAND SURFACE DATUM AUG 13, 1961.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	9.60	S	MAR 05, 1984	4.88	S	JUL 10, 1984	14.23	S	SEP 24, 1984	11.49	S
JAN 12, 1984	6.70	S	MAY 24	7.17	S						

WELL 07N 35E 13AAD1 SITE NUMBER 435626112164301

FORMERLY SITE ID NO. 435615112164201. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 14 IN, REPORTED DEPTH 515 FT, CASED TO 14 FT, 1-IN PIEZOMETER TUBE 0-330 FT, PERFORATED 322.5-327.5 FT, GRAVEL FILL 0-515 FT, CONCRETE SEAL 515-592 FT. LSD 4,789.50 FT NGVD OF 1929. MP NO. 2 TOP OF 1-IN PIPE SOUTHWEST SIDE, 1.24 FT ABOVE LSD (SINCE JUNE 28, 1980).

RECORDS AVAILABLE 1969 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.25 FEET ABOVE LAND SURFACE DATUM OCT 22, 1969.

LOWEST WATER LEVEL 9.15 FEET BELOW LAND SURFACE DATUM SEP 09, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	3.45	S	MAR 02, 1984	2.61	S	JUL 10, 1984	2.38	S	SEP 26, 1984	1.75	S
JAN 12, 1984	3.04	S	MAY 23	1.36	S						

WELL 07N 35E 13AAD2 SITE NUMBER 435626112164302

FORMERLY SITE ID NO. 435615112164202. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 760 FT, 3/4-IN PIEZOMETER TUBE 0-645 FT, PERFORATED 637.5-642.5 FT, GRAVEL FILL 592-760 FT, CONCRETE SEAL 515-592 FT, 760-794 FT. LSD 4,789.50 FT NGVD OF 1929. MP NO. 2 TOP OF 3/4-IN PIPE SOUTHWEST SIDE, 1.31 FT ABOVE LSD (SINCE JUNE 28, 1980).

RECORDS AVAILABLE 1969 - 1976, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.82 FEET ABOVE LAND SURFACE DATUM OCT 22, 1969.

LOWEST WATER LEVEL 7.24 FEET BELOW LAND SURFACE DATUM NOV 20, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	5.77	S	MAR 02, 1984	5.07	S	JUL 10, 1984	4.09	S	SEP 26, 1984	3.76	S
JAN 12, 1984	5.39	S	MAY 23	4.49	S						

WELL 07N 35E 13AAD4 SITE NUMBER 435626112164304

FORMERLY SITE ID NO. 435615112164204. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 1,000.7 FT, 3/4-IN PIEZOMETER TUBE 0-870 FT, PERFORATED 862.5-867.5 FT, GRAVEL FILL 840-1,000.7 FT, CONCRETE SEAL 827-840 FT. LSD 4,789.50 FT NGVD OF 1929. MP NO. 2 TOP OF 3/4-IN PIPE SOUTHWEST SIDE, 1.14 FT ABOVE LSD (SINCE JUNE 28, 1980).

RECORDS AVAILABLE 1969 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.96 FEET ABOVE LAND SURFACE DATUM DEC 01, 1972.

LOWEST WATER LEVEL 2.99 FEET BELOW LAND SURFACE DATUM AUG 30, 1979.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL
NOV 18, 1983	1.13	S	MAY 23, 1984	1.14	S	JUL 10, 1984	1.14	S	SEP 26, 1984	F
JAN 12, 1984	1.13	S								

WELL 07N 35E 20CBD1 SITE NUMBER 435504112222301

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, DEPTH 58.1 FT, CASED TO 45 FT. LSD 4,818.15 FT NGVD OF 1929. MAY 15, 1967, WELL DEEPENED AND RECASED, DIAM 12 IN, DEPTH 65.9 FT, CASED TO 66 FT, PERFORATED 55-65 FT. RECORDER INSTALLED SEPT. 5, 1955. RECORDER CHANGED TO DIGITAL APR. 2, 1973. LOWEST WATER LEVELS RECORDED WERE DRY AT 57.95 FT SEPT. 9-17, 1961, BEFORE WELL WAS DEEPENED TO A DEPTH OF 65.9 FT. MP NO. 4 TOP OF 12-IN CASING NORTHEAST SIDE, 2.00 FT ABOVE LSD (SINCE MAY 16, 1967).

RECORDS AVAILABLE 1954, 1955 TO CURRENT YEAR.

HIGHEST WATER LEVEL 30.87 FEET BELOW LAND SURFACE DATUM MAY 04, 1972.

LOWEST WATER LEVEL 59.28 FEET BELOW LAND SURFACE DATUM OCT 12, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
OCT 04, 1983	39.72	DEC 05, 1983	36.65	FEB 15, 1984	33.35	APR 30, 1984	31.32	
05	39.67	10	36.24	20	33.17	MAY 02	31.12	
06	39.72	15	36.00	25	32.93	05	32.17	
07	39.72	20	35.70	29	32.83	10	32.18	
10	39.67	25	35.46	MAR 05	32.69	24	31.03	S
15	39.46	31	35.24	10	32.63	JUL 10	32.79	S
20	39.30	JAN 05, 1984	34.98	15	32.44	AUG 23	34.69	S
25	39.08	10	34.74	20	32.27	25	34.63	
31	38.71	12	34.60	25	32.10	31	34.43	
NOV 05	38.42	15	34.56	31	31.92	SEP 05	34.34	
10	38.08	20	34.35	APR 05	31.79	10	34.18	
15	37.83	25	34.03	10	31.64	15	34.14	
20	37.36	31	33.85	15	31.64	20	34.01	
25	37.10	FEB 05	33.67	20	31.51	25	34.15	
30	36.87	10	33.34	25	31.30	30	34.09	

WELL 07N 36E 22ABD4 SITE NUMBER 435528112121201

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 24.5 FT, CASED TO 18 FT. LSD 4,791.73 FT NGVD OF 1929. RECORDER INSTALLED FEB. 12, 1957. RECORDER REMOVED AUG. 19, 1971. DIGITAL RECORDER INSTALLED JULY 9, 1977. RECORDER REMOVED SEPT. 15, 1977. MP NO. 4 TOP OF CASING COVER NORTHEAST SIDE, 2.02 FT ABOVE LSD (SINCE DEC. 13, 1977).

RECORDS AVAILABLE 1955 - 1956, 1957 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.34 FEET BELOW LAND SURFACE DATUM SEP 24, 1984.

LOWEST WATER LEVEL 10.06 FEET BELOW LAND SURFACE DATUM SEP 21, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 02, 1984	4.42	S	SEP 24, 1984	3.34	S

WELL 07N 37E 28CCD1 SITE NUMBER 435402112065001

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 135.0 FT, CASED TO 103 FT. LSD [illegible],848.92 FT NGVD OF 1929. MP NO. 2 TOP OF 1 1/4-IN PIPE COUPLING IN WELL SEAL, 0.70 FT ABOVE LSD (SINCE JUNE 13, 1976).

RECORDS AVAILABLE 1960 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 60.81 FEET BELOW LAND SURFACE DATUM SEP 26, 1984.

LOWEST WATER LEVEL 66.69 FEET BELOW LAND SURFACE DATUM SEP 21, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAY 23, 1984	61.35	S	SEP 26, 1984	60.81	S

WELL 06N 32E 11ABA1 SITE NUMBER 435212112394001

FORMERLY SITE ID NO. 435215112394201. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 266.5 FT, CASED TO 266 FT, PERFORATED 232-266 FT, CEMENTED BOTTOM. LSD 4,789.79 FT NGVD OF 1929. RECORDER INSTALLED NOV. 22, 1952. RECORDER REMOVED OCT. 13, 1954. MP NO. 2 TOP NORTHEAST SIDE 6 1/4-IN CASING AT PAINTED SPOT, 1.87 FT ABOVE LSD (SINCE NOV. 10, 1952).

RECORDS AVAILABLE 1952 - 1954, 1955 - 1960, 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 204.30 FEET BELOW LAND SURFACE DATUM APR 23, 1974.

LOWEST WATER LEVEL 211.08 FEET BELOW LAND SURFACE DATUM AUG 27, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 27, 1983	209.88	S	JAN 31, 1984	208.31	S	APR 25, 1984	207.01	S	JUL 13, 1984	207.50	S
NOV 28	209.19	S	FEB 28	207.92	S	MAY 25	206.99	S	AUG 28	208.08	S
DEC 26	208.68	S	MAR 28	207.54	S	JUN 26	207.25	S	SEP 26	207.76	S

WELL 06N 32E 26CDB1 SITE NUMBER 434856112430001

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 321.8 FT, CASED TO 321.8 FT, PERFORATED 236.6-313.8 FT, GRAVEL PACKED 207-318.8 FT, CONCRETE SEAL 201-207 FT, 318.8-321.8 FT. LSD 4,787.92 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADUSTMENT OF 1947. MP NO. 1 TOP OF THREADED 8-IN CASING NORTHEAST SIDE, 2.00 FT ABOVE LSD (SINCE AUG. 1, 1956).

RECORDS AVAILABLE 1956 - 1959, 1960 - 1961, 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 217.20 FEET BELOW LAND SURFACE DATUM APR 23, 1974.

LOWEST WATER LEVEL 223.73 FEET BELOW LAND SURFACE DATUM OCT 31, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 26, 1983	222.49	S	JAN 25, 1984	220.64	S	APR 25, 1984	219.56	S	JUL 20, 1984	219.90	S
NOV 28	221.69	S	FEB 28	220.40	S	MAY 25	219.58	S	AUG 29	220.58	S
DEC 26	221.10	S	MAR 28	220.09	S	JUN 26	219.80	S	SEP 25	220.55	S

WELL 06N 33E 26DDB1 SITE NUMBER 434851112321801

FORMERLY SITE ID NO. 434854112322101. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 312 FT, CASED TO 312 FT, PERFORATED 250-260 FT, 298-308 FT, CEMENTED BOTTOM. LSD 4,784.32 FT NGVD OF 1929. RECORDER INSTALLED JUNE 13, 1953. RECORDER REMOVED APR. 23, 1956. RECORDER INSTALLED JUNE 2, 1981. MP NO. 2 TOP OF THREADED 6 1/4-IN CASING NORTHEAST SIDE, 2.30 FT ABOVE LSD (SINCE FEB. 12, 1953).

RECORDS AVAILABLE 1952, 1953 - 1954, 1957 - 1973, 1974 - 1980, 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 220.85 FEET BELOW LAND SURFACE DATUM APR 11, 1973.

LOWEST WATER LEVEL 226.53 FEET BELOW LAND SURFACE DATUM SEP 14, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
OCT 05, 1983	225.67	DEC 25, 1983	223.65	MAR 20, 1984	222.73	JUN 10, 1984	222.36	
10	225.60	31	223.39	25	222.63	15	222.45	
15	225.54	JAN 05, 1984	223.64	31	222.53	20	222.40	
20	225.38	10	223.55	APR 05	222.42	25	222.72	
25	225.57	15	223.66	10	222.27	30	222.97	
28	225.28	20	223.60	15	222.60	JUL 05	223.06	
31	225.02	25	223.03	20	222.50	10	223.40	
NOV 05	224.85	31	223.25	24	222.03	13	223.27	S
10	224.76	FEB 05	223.24	25	222.18	AUG 29	223.51	S
15	224.82	10	222.74	30	222.49	31	223.26	
20	224.10	15	223.21	MAY 05	222.27	SEP 05	223.40	
25	224.16	20	223.15	10	222.24	10	223.27	
30	224.28	25	222.92	15	222.13	15	223.37	
DEC 05	224.36	29	222.86	20	222.19	20	223.08	
10	223.96	MAR 05	222.89	25	222.57	25	223.41	
15	223.95	10	222.85	31	222.53	30	223.05	
20	223.75	15	222.71	JUN 05	222.41			

WELL 06N 35E 21AAB1 SITE NUMBER 435028112202601

DRILLED IRRIGATION ARTESIAN WELL IN SNAKE RIVER GROUP, DIAM 16 TO 14 IN, DEPTH 275.5 FT, 16-IN CASING 0-95 FT, 14-IN CASING 135-205 FT. LSD 4,784.50 FT NGVD OF 1929. MAY 15, 1967, WELL WAS RECONDITIONED. MP NO. 5 TOP OF HOLE INSIDE PUMPBASE NORTH SIDE, 1.73 FT ABOVE LSD (SINCE JULY 14, 1967).

RECORDS AVAILABLE 1949 - 1951, 1952 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 90.87 FEET BELOW LAND SURFACE DATUM SEP 24, 1984.

LOWEST WATER LEVEL 113.83 FEET BELOW LAND SURFACE DATUM JUL 23, 1973.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 01, 1984	98.30	S	SEP 24, 1984	90.87	S

WELL 06N 35E 27DDA1 SITE NUMBER 434857112185801

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, REPORTED DEPTH 260 FT, CASED TO 9 FT. LSD 4,795.23 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 4 TOP OF 1-IN AIRLINE HOLE IN PUMPBASE WEST SIDE, 1.00 FT ABOVE LSD (SINCE SEPT. 16, 1963).

RECORDS AVAILABLE 1957 - 1964, 1965 TO CURRENT YEAR.

HIGHEST WATER LEVEL 230.13 FEET BELOW LAND SURFACE DATUM MAR 21, 1973.

LOWEST WATER LEVEL 241.13 FEET BELOW LAND SURFACE DATUM SEP 08, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 01, 1984	232.72	S	SEP 24, 1984	235.33	S

WELL 06N 36E 11ABA1 SITE NUMBER 435208112105101

FORMERLY SITE ID NO. 435208112105501. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 245 FT, 3/4-IN PIEZOMETER TUBE 0-126 FT, PERFORATED 118.5-123.5 FT, GRAVEL FILL 0-245 FT, CONCRETE SEAL 245-260 FT. LSD 4,817.90 FT NGVD OF 1929. MP NO. 2 TOP OF HOLE IN CASING COVER SOUTH SIDE, 1.41 FT ABOVE LSD (SINCE MAY 20, 1982).

RECORDS AVAILABLE 1969 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 68.50 FEET BELOW LAND SURFACE DATUM JUL 10, 1975.

LOWEST WATER LEVEL 74.25 FEET BELOW LAND SURFACE DATUM JUL 29, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	71.36	S	MAR 02, 1984	71.14	S	JUL 10, 1984	71.09	S	SEP 26, 1984	70.53	S
JAN 11, 1984	71.22	S	MAY 23	70.76	S						

WELL 06N 36E 11ABA2 SITE NUMBER 435208112105102

FORMERLY SITE ID NO. 435208112105502. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 615 FT, 3/4-IN PIEZOMETER TUBE 0-272 FT, PERFORATED 264.5-269.5 FT, GRAVEL FILL 260-615 FT, CONCRETE SEAL 245-260 FT, 615-630 FT. LSD 4,817.90 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE SOUTH SIDE, 1.88 FT ABOVE LSD (SINCE OCT. 24, 1969).

RECORDS AVAILABLE 1969 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 34.01 FEET BELOW LAND SURFACE DATUM MAR 10, 1972.

LOWEST WATER LEVEL 44.07 FEET BELOW LAND SURFACE DATUM SEP 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	36.87	S	MAR 02, 1984	36.54	S	JUL 10, 1984	36.29	S	SEP 26, 1984	35.45	S
JAN 11, 1984	36.75	S	MAY 23	35.80	S						

WELL 06N 36E 11ABA3 SITE NUMBER 435208112105103

FORMERLY SITE ID NO. 435208112105503. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 915 FT, 3/4-IN PIEZOMETER TUBE 0-661 FT, PERFORATED 653.5-658.5 FT, GRAVEL FILL 630-915 FT, CONCRETE SEAL 615-630 FT, 915-927 FT. LSD 4,817.90 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE SOUTH SIDE, 1.70 FT ABOVE LSD (SINCE OCT. 24, 1969).

RECORDS AVAILABLE 1969 - 1979, 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 33.00 FEET BELOW LAND SURFACE DATUM SEP 26, 1984.

LOWEST WATER LEVEL 39.60 FEET BELOW LAND SURFACE DATUM SEP 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	34.72	S	MAR 02, 1984	34.30	S	JUL 10, 1984	33.94	S	SEP 26, 1984	33.00	S
JAN 11, 1984	34.46	S	MAY 23	33.44	S						

WELL 06N 36E 11ABA4 SITE NUMBER 435208112105104

FORMERLY SITE ID NO. 435208112105504. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 1,002.2 FT, 3/4-IN PIEZOMETER TUBE 0-971 FT, PERFORATED 962.5-967.5 FT, GRAVEL FILL 927-1,002.2 FT, CONCRETE SEAL 915-927 FT. LSD 4,817.90 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE SOUTH SIDE, 1.62 FT ABOVE LSD (SINCE OCT. 24, 1969).

RECORDS AVAILABLE 1969 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 14.10 FEET BELOW LAND SURFACE DATUM NOV 15, 1969.

LOWEST WATER LEVEL 57.18 FEET BELOW LAND SURFACE DATUM SEP 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	54.44	S	MAR 02, 1984	54.10	S	JUL 10, 1984	53.90	S	SEP 26, 1984	53.00	S
JAN 11, 1984	54.24	S	MAY 23	53.60	S						

WELL 06N 36E 27BAA1 SITE NUMBER 434933112122701

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 227.5 FT, CASED TO 8 FT. LSD 4,884.31 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 8-IN CASING NORTH SIDE, 1.00 FT ABOVE LSD (SINCE JULY 17, 1969).

RECORDS AVAILABLE 1960 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 180.95 FEET BELOW LAND SURFACE DATUM MAR 18, 1974.

LOWEST WATER LEVEL 186.59 FEET BELOW LAND SURFACE DATUM SEP 19, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	182.38	S	MAR 01, 1984	182.11	S	JUL 11, 1984	182.74	V	SEP 25, 1984	181.22	S
JAN 11, 1984	182.34	S	MAY 24	181.75	S						

WELL 06N 37E 29ACA1 SITE NUMBER 434922112072201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, REPORTED DEPTH 62 FT, CASED TO 21 FT, CLAY SEAL 62-90 FT. LSD 4,823.62 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE IN 16-IN CASING COVER EAST SIDE, 0.60 FT ABOVE LSD (SINCE JAN. 10, 1969).

RECORDS AVAILABLE 1969 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 41.95 FEET BELOW LAND SURFACE DATUM JUL 10, 1984.

LOWEST WATER LEVEL 46.31 FEET BELOW LAND SURFACE DATUM MAR 09, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	43.45	S	MAR 01, 1984	43.12	S	JUL 10, 1984	41.95	S	SEP 26, 1984	42.02	S
JAN 11, 1984	43.20	S	MAY 23	42.49	S						

WELL 06N 37E 29ACA2 SITE NUMBER 434922112072202

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12 IN, REPORTED DEPTH 175 FT, CASED TO 151.5 FT. LSD 4,823.62 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE IN 12-IN CASING COVER NORTHEAST SIDE, 1.00 FT ABOVE LSD (SINCE JAN. 10, 1969).

RECORDS AVAILABLE 1969 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 45.50 FEET BELOW LAND SURFACE DATUM FEB 07, 1973.

LOWEST WATER LEVEL 49.60 FEET BELOW LAND SURFACE DATUM SEP 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	47.20	S	MAR 01, 1984	47.84	S	JUL 10, 1984	45.74	S	SEP 26, 1984	45.74	S
JAN 11, 1984	46.92	S	MAY 23	46.19	S						

WELL 06N 37E 29ACA4 SITE NUMBER 434922112072204

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 573 FT, CASED TO 505 FT. LSD 4,823.62 FT NGVD OF 1929. RECORDER INSTALLED JUNE 18, 1969. RECORDER REMOVED MAY 21, 1982. MP NO. 1 TOP OF 6-IN CASING NORTHEAST SIDE, 1.00 FT ABOVE LSD (SINCE JAN. 10, 1969).

RECORDS AVAILABLE 1969 - 1979, 1980 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 36.53 FEET BELOW LAND SURFACE DATUM SEP 26, 1984.

LOWEST WATER LEVEL 43.24 FEET BELOW LAND SURFACE DATUM AUG 07, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	38.31	S	MAR 01, 1984	37.99	S	JUL 10, 1984	37.43	S	SEP 26, 1984	36.53	S
JAN 11, 1984	38.08	S	MAY 23	37.16	S						

WELL 06N 38E 30BAD2 SITE NUMBER 434924112013801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 308 FT, CASED TO 308 FT, PERFORATED 260-270 FT, CONCRETE SEAL 308-355 FT. LSD 4,874.35 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 1 TOP OF 3/4-IN PIPE, 0.98 FT ABOVE LSD (SINCE AUG. 28, 1967).

RECORDS AVAILABLE 1957 - 1969, 1970 - 1973, 1974 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 58.15 FEET BELOW LAND SURFACE DATUM SEP 28, 1976.

LOWEST WATER LEVEL 92.32 FEET BELOW LAND SURFACE DATUM NOV 17, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 01, 1984	89.92	S	SEP 25, 1984	88.61	S

WELL 06N 38E 30BAD3 SITE NUMBER 434924112013802

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 543.5 FT, 3/4-IN PIEZOMETER TUBE 0-450 FT, PERFORATED 442.5-447.5 FT, GRAVEL FILL 430-543.5 FT, CONCRETE SEAL 392-430 FT, 543.5-575 FT. LSD 4,874.35 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 2 TOP OF 3/4-IN PIPE, 0.76 FT ABOVE LSD (SINCE JULY 7, 1978).

RECORDS AVAILABLE 1967 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 82.50 FEET BELOW LAND SURFACE DATUM SEP 26, 1984.

LOWEST WATER LEVEL 89.35 FEET BELOW LAND SURFACE DATUM SEP 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 01, 1984	84.75	S	SEP 26, 1984	82.50	S

WELL 06N 38E 30BAD4 SITE NUMBER 434924112013803

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 638 FT, 3/4-IN PIEZOMETER TUBE 0-595 FT, PERFORATED 587.5-592.5 FT, GRAVEL FILL 575-600 FT, SAND 600-638 FT, CONCRETE SEAL 543.5-575 FT. LSD 4,874.35 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 1 TOP OF 3/4-IN PIPE, 1.44 FT ABOVE LSD (SINCE AUG. 29, 1967).

RECORDS AVAILABLE 1967 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 65.71 FEET BELOW LAND SURFACE DATUM AUG 28, 1967.

LOWEST WATER LEVEL 90.69 FEET BELOW LAND SURFACE DATUM OCT 08, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 01, 1984	90.41	S	SEP 26, 1984	90.18	S

WELL 05N 32E 36ADD1 SITE NUMBER 434307112382601

FORMERLY SITE ID NO. 434311112383001. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 405.5 FT, 6-IN CASING 0-357 FT, 5-IN CASING 351-405 FT, PERFORATED 360-400 FT, OPEN BOTTOM. LSD 4,839.44 FT NGVD OF 1929. RECORDER INSTALLED NOV. 15, 1952. RECORDER REMOVED OCT. 14, 1954. RECORDER INSTALLED MAY 10, 1962. MP NO. 2 TOP OF 6 1/4-IN CASING NORTHEAST SIDE, 1.00 FT ABOVE LSD (SINCE JAN. 26, 1961).

RECORDS AVAILABLE 1952 - 1954, 1955 - 1961, 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 324.56 FEET BELOW LAND SURFACE DATUM MAR 02, 1974.

LOWEST WATER LEVEL 334.35 FEET BELOW LAND SURFACE DATUM OCT 18, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	332.08	JAN 05, 1984	330.08	APR 10, 1984	328.19	JUL 10, 1984	329.02
10	332.01	10	329.90	15	328.71	15	329.15
15	331.87	15	329.80	19	327.98	20	329.05
20	331.85	20	329.79	20	328.27	25	329.28
25	332.16	25	329.15	25	328.05	31	329.25
29	331.84	31	329.35	30	328.50	AUG 05	329.25
31	331.58	FEB 05	329.32	MAY 05	328.26	10	329.38
NOV 05	331.40	10	328.60	10	328.35	15	329.54
10	331.36	15	329.06	15	328.18	20	329.53
15	331.43	20	329.18	20	328.32	25	329.64
20	330.51	24	328.64	25	328.56	31	329.48
25	330.57	29	328.79	31	328.43	SEP 05	329.67
30	330.84	MAR 05	328.86	JUN 05	328.38	10	329.51
DEC 05	330.84	10	328.80	10	328.49	15	329.74
10	330.35	15	328.48	15	328.68	20	329.47
15	330.36	20	328.67	20	328.56	25	329.91
20	330.09	25	328.49	25	328.81	30	329.53
25	330.10	31	328.36	30	328.87		
31	330.28	APR 05	328.32	JUL 05	328.85		

WELL 05N 33E 13BDC1 SITE NUMBER 434601112315401

FORMERLY SITE ID NO. 434604112315701. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 359.4 FT, CASED TO 360 FT, PERFORATED 276-290 FT, 300-317 FT. LSD 4,794.58 FT NGVD OF 1929. MAY 1953 WELL WAS DEEPENED TO A DEPTH OF 405 FT. DEC. 5, 1969, WELL WAS PLUGGED BACK WITH CONCRETE SEAL TO 326.0 FT. MP NO. 3 TOP OF 8-IN THREADED CASING, 1.80 FT ABOVE LSD (SINCE MAY 14, 1953).

RECORDS AVAILABLE 1953, 1954 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 260.82 FEET BELOW LAND SURFACE DATUM FEB 19, 1974.

LOWEST WATER LEVEL 272.02 FEET BELOW LAND SURFACE DATUM AUG 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 31, 1983	268.77	S	JAN 31, 1984	264.66	S	APR 25, 1984	264.01	S	JUL 13, 1984	264.14	S
NOV 28	266.30	S	FEB 27	264.52	S	MAY 25	263.57	S	AUG 28	265.45	S
DEC 26	265.25	S	MAR 28	264.39	S	JUN 26	263.77	S	SEP 26	264.65	S

WELL 05N 33E 13BDC2 SITE NUMBER 434601112315402

FORMERLY SITE ID NO. 434604112315702. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 493 FT, 3/4-IN PIEZOMETER TUBE 0-400.0 FT, PERFORATED 392.5-397.5 FT, GRAVEL FILL 370-493 FT, CONCRETE SEAL 326-353 FT, 493-540 FT. LSD 4,794.58 FT NGVD OF 1929. MP NO. 1 TOP OF 8-IN CASING, 1.80 FT ABOVE LSD (SINCE DEC. 5, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 258.77 FEET BELOW LAND SURFACE DATUM FEB 19, 1974.

LOWEST WATER LEVEL 270.04 FEET BELOW LAND SURFACE DATUM AUG 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 31, 1983	265.65	S	JAN 31, 1984	262.62	S	APR 25, 1984	261.88	S	JUL 13, 1984	262.18	S
NOV 28	263.58	S	FEB 27	262.47	S	MAY 25	261.45	S	AUG 28	263.28	S
DEC 26	263.03	S	MAR 28	262.36	S	JUN 26	261.63	S	SEP 26	262.55	S

WELL 05N 33E 13BDC3 SITE NUMBER 434601112315403

FORMERLY SITE ID NO. 434604112315703. DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 1,006.5 FT, 1-IN PIEZOMETER TUBE 0-725.0 FT, PERFORATED 717.5-722.5 FT, GRAVEL FILL 750-1,006.5 FT, CONCRETE SEAL 493-540 FT. LSD 4,794.58 FT NGVD OF 1929. MP NO. 1 TOP OF 8-IN CASING, 1.80 FT ABOVE LSD (SINCE DEC. 5, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 250.92 FEET BELOW LAND SURFACE DATUM FEB 19, 1974.

LOWEST WATER LEVEL 260.00 FEET BELOW LAND SURFACE DATUM AUG 27, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 31, 1983	257.04	S	JAN 31, 1984	254.62	S	APR 25, 1984	253.80	S	JUL 12, 1984	254.50	S
NOV 28	255.93	S	FEB 27	254.37	S	MAY 25	253.71	S	AUG 28	255.29	S
DEC 26	255.01	S	MAR 28	254.12	S	JUN 26	254.10	S	SEP 26	254.60	S

WELL 05N 34E 09BDA1 SITE NUMBER 434657112292201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 320 FT, CASED TO 320 FT, PERFORATED 285-315 FT. LSD 4,791.28 FT NGVD OF 1929. DEC. 9, 1952, WELL WAS DEEPENED TO A DEPTH OF 553 FT, DIAM 4 IN, OPEN HOLE 320-553 FT. AUG. 11, 1961, WELL HAD FILLED IN TO A DEPTH OF 436 FT, JAN. 12, 1962, TO 434 FT. WATER LEVELS AFFECTED BY BAROMETRIC PRESSURE. RECORDER INSTALLED MAY 13, 1950. RECORDER REMOVED OCT. 18, 1952. RECORDER INSTALLED APR. 8, 1953. RECORDER REMOVED MAY 11, 1961. RECORDER INSTALLED APR. 22, 1965. RECORDER REMOVED OCT. 30, 1965. RECORDER INSTALLED JAN. 12, 1966. RECORDER REMOVED DEC. 20, 1966. RECORDER INSTALLED MAY 30, 1967. RECORDER REMOVED NOV. 27, 1978. MP NO. 1 PAINTED X ON TOP OF 6-IN CASING NORTHWEST SIDE, 1.76 FT ABOVE LSD (SINCE MAY 11, 1950).

RECORDS AVAILABLE 1950 - 1961, 1962 - 1964, 1966 - 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 252.00 FEET BELOW LAND SURFACE DATUM FEB 11, 1973.

LOWEST WATER LEVEL 264.57 FEET BELOW LAND SURFACE DATUM AUG 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 31, 1983	258.99	S	JAN 31, 1984	256.94	S	APR 25, 1984	255.78	S	JUL 13, 1984	257.49	S
NOV 28	257.43	S	FEB 28	255.74	S	MAY 25	256.19	S	AUG 28	258.22	S
DEC 26	256.39	S	MAR 29	255.83	S	JUN 26	256.61	S	SEP 26	256.91	S

WELL 05N 34E 29DAA1 SITE NUMBER 434407112285101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN, DEPTH 425.5 FT, 6-IN CASING 0-328 FT, 5-IN CASING 328-398 FT, PERFORATED 363-398 FT. LSD 4,877.52 FT NGVD OF 1929. MP NO. 1 TOP OF 6 1/4-IN THREADED CASING, 2.30 FT ABOVE LSD (SINCE MAY 14, 1953).

RECORDS AVAILABLE 1953, 1956 - 1963, 1964 TO CURRENT YEAR.

HIGHEST WATER LEVEL 346.98 FEET BELOW LAND SURFACE DATUM JAN 14, 1956.

LOWEST WATER LEVEL 357.15 FEET BELOW LAND SURFACE DATUM AUG 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	
AUG 06, 1984	351.65	S

WELL 05N 36E 02BDA1 SITE NUMBER 434748112113601

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, REPORTED DEPTH 405 FT, CASED TO 18 FT. LSD 4,763.57 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 16-IN CASING COVER, 1.00 FT ABOVE LSD (SINCE AUG. 30, 1968).

RECORDS AVAILABLE 1968, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 40.80 FEET BELOW LAND SURFACE DATUM SEP 04, 1968.

LOWEST WATER LEVEL 49.72 FEET BELOW LAND SURFACE DATUM SEP 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	47.48	S	MAR 02, 1984	47.11	S	JUL 11, 1984	46.59	S	SEP 25, 1984	46.02	S
JAN 12, 1984	47.13	S	MAY 24	46.63	S						

WELL 05N 36E 02BDA2 SITE NUMBER 434748112113602

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DIAM 12 IN, REPORTED DEPTH 923 FT, CASED TO 538 FT. LSD 4,763.57 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 3 TOP OF 1 1/2-IN TEE NORTHWEST SIDE, 1.56 FT ABOVE LSD (SINCE JUNE 19, 1978).

RECORDS AVAILABLE 1968, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.40 FEET ABOVE LAND SURFACE DATUM OCT 24, 1972.

LOWEST WATER LEVEL 3.47 FEET BELOW LAND SURFACE DATUM SEP 08, 1982.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	0.18	S	MAY 24, 1984	0.60	S	JUL 11, 1984	0.32	S	SEP 25, 1984	0.97	S

WELL 05N 36E 02BDA3 SITE NUMBER 434748112113603

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DIAM 8 IN, REPORTED DEPTH 995 FT, CASED TO 955 FT. LSD 4,763.57 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF 2-IN COUPLING ON PIPE EXTENSION NORTHEAST SIDE, 3.76 FT ABOVE LSD (FEB. 14, 1980).

RECORDS AVAILABLE 1968, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.82 FEET ABOVE LAND SURFACE DATUM MAR 22, 1983.

LOWEST WATER LEVEL 20.15 FEET BELOW LAND SURFACE DATUM SEP 03, 1968.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	3.72	S	MAY 24, 1984	3.69	S	JUL 11, 1984	3.71	S	SEP 25, 1984	3.73	S

WELL 05N 36E 21DAC1 SITE NUMBER 434447112133401

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 299.5 FT, CASED TO 103 FT. LSD 4,800.94 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED NOV. 23, 1976. RECORDER MAINTAINED, AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION. PERIODIC MEASUREMENTS MADE BY U.S. GEOLOGICAL SURVEY. RECORDER REMOVED MAR. 19, 1980. MP NO. 1 TOP OF CASING, 1.00 FT ABOVE LSD (SINCE AUG. 24, 1960).

RECORDS AVAILABLE 1960 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 252.25 FEET BELOW LAND SURFACE DATUM DEC 20, 1974.

LOWEST WATER LEVEL 264.50 FEET BELOW LAND SURFACE DATUM SEP 11, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	258.60	V	MAR 05, 1984	256.59	V	JUL 11, 1984	260.35	V	SEP 25, 1984	258.00	V
JAN 12, 1984	256.17	V	MAY 29	257.70	V						

WELL 05N 36E 22BBC1 SITE NUMBER 434512112131801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 5 TO 4 IN, REPORTED DEPTH 400 FT, 5-IN CASING 0-97 FT, 4-IN CASING 180-327 FT. LSD 4,780.86 FT NGVD OF 1929. MP NO. 2 TOP OF 3/4-IN PIPE SOUTH SIDE, 1.41 FT ABOVE LSD (SINCE AUG. 11, 1975).

RECORDS AVAILABLE 1975, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 156.83 FEET BELOW LAND SURFACE DATUM MAR 19, 1980.

LOWEST WATER LEVEL 173.59 FEET BELOW LAND SURFACE DATUM AUG 11, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	163.76	V	MAR 05, 1984	161.79	V	JUL 11, 1984	161.00	V	SEP 25, 1984	159.90	V
JAN 12, 1984	162.66	V	MAY 29	160.31	V						

WELL 05N 36E 22BBC2 SITE NUMBER 434512112131802

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 505 FT, 3/4-IN PIEZOMETER TUBE 0-483 FT, PERFORATED 475.5-480.5 FT, GRAVEL FILL 483-505 FT, CONCRETE SEAL 505-557 FT. LSD 4,780.86 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE SOUTH SIDE, 1.92 FT ABOVE LSD (SINCE AUG. 11, 1975).

RECORDS AVAILABLE 1975, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 122.28 FEET BELOW LAND SURFACE DATUM AUG 11, 1975.

LOWEST WATER LEVEL 137.61 FEET BELOW LAND SURFACE DATUM SEP 25, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	126.21	S	MAR 05, 1984	125.46	S	JUL 11, 1984	130.56	S	SEP 25, 1984	137.61	S
JAN 12, 1984	125.38	S	MAY 29	126.16	S						

WELL 05N 36E 22BBC3 SITE NUMBER 434512112131803

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 627 FT, 3/4-IN PIEZOMETER TUBE 0-598 FT, PERFORATED 590.5-595.5 FT, GRAVEL FILL 557-627 FT, CONCRETE SEAL 505-557 FT. LSD 4,780.86 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE SOUTH SIDE, 1.53 FT ABOVE LSD (SINCE AUG. 11, 1975).

RECORDS AVAILABLE 1975, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 19.57 FEET BELOW LAND SURFACE DATUM AUG 11, 1975.

LOWEST WATER LEVEL 80.67 FEET BELOW LAND SURFACE DATUM SEP 15, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 29, 1984	D	JUL 11, 1984	D

WELL 05N 37E 21DBB1 SITE NUMBER 434453112063601

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DIAM 5 IN, REPORTED DEPTH 289.5 FT, CASED TO 190 FT, CONCRETE SEAL 289.5-302 FT. LSD 4,744.59 FT NGVD OF 1929. MP NO. 2 TOP OF 3/4-IN PIPE SOUTH SIDE, 2.45 FT ABOVE LSD (SINCE NOV. 23, 1976).

RECORDS AVAILABLE 1975 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.44 FEET ABOVE LAND SURFACE DATUM SEP 25, 1984.

LOWEST WATER LEVEL 1.90 FEET BELOW LAND SURFACE DATUM JAN 12, 1979.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	1.76	S	MAY 29, 1984	0.45	S	JUL 11, 1984	1.75	S	SEP 25, 1984	2.44	S

WELL 05N 37E 21DBB2 SITE NUMBER 434453112063602

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 411 FT, 3/4-IN PIEZOMETER TUBE 0-342 FT, PERFORATED 334.5-339.5 FT, GRAVEL FILL 302-411 FT, CONCRETE SEAL 289.5-302 FT, 411-445 FT. LSD 4,774.59 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE SOUTH SIDE, 2.05 FT ABOVE LSD (SINCE NOV. 23, 1976).

RECORDS AVAILABLE 1976 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.39 FEET BELOW LAND SURFACE DATUM JAN 12, 1979.

LOWEST WATER LEVEL 2.92 FEET BELOW LAND SURFACE DATUM NOV 23, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	2.04	S	MAR 01, 1984	2.02	S	JUL 11, 1984	1.96	S	SEP 25, 1984	1.93	S
JAN 11, 1984	2.04	S	MAY 29	1.98	S						

WELL 05N 37E 21DBB3 SITE NUMBER 434453112063603

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 536 FT, 3/4-IN PIEZOMETER TUBE 0-478 FT, PERFORATED 470.5-475.5 FT, GRAVEL FILL 445-536 FT, CONCRETE SEAL 411-445 FT. LSD 4,774.59 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE SOUTH SIDE, 1.39 FT ABOVE LSD (SINCE NOV. 23, 1976).

RECORDS AVAILABLE 1976 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.18 FEET ABOVE LAND SURFACE DATUM SEP 25, 1984.

LOWEST WATER LEVEL 3.43 FEET BELOW LAND SURFACE DATUM MAR 19, 1980.

WATER LEVELS IN FEET ABOVE OR BELOW(-) LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	-2.61	S	MAR 01, 1984	-2.85	S	JUL 11, 1984	0.42	S	SEP 25, 1984	1.18	S
JAN 11, 1984	-2.73	S	MAY 29	-0.84	S						

WELL 04N 35E 14AAA1 SITE NUMBER 434102112180701

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 1,000.0 FT, CASED TO 430 FT. LSD 4,939.32 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1958. RECORDER INSTALLED NOV. 5, 1969. RECORDER MAINTAINED, AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION. PERIODIC MEASUREMENTS MADE BY U.S. GEOLOGICAL SURVEY. RECORDER REMOVED MAR. 17, 1976. RECORDER INSTALLED MAY 4, 1981. MP NO. 1 TOP OF 6-IN CASING EAST SIDE, 0.60 FT ABOVE LSD (SINCE NOV. 5, 1969).

RECORDS AVAILABLE 1969 - 1976, 1977 - 1980, 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 402.48 FEET BELOW LAND SURFACE DATUM JAN 05, 1974.

LOWEST WATER LEVEL 417.03 FEET BELOW LAND SURFACE DATUM AUG 06, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	410.70	DEC 25, 1983	406.63		MAY 05, 1984	408.16	JUL 29, 1984	411.85
10	410.32	31	406.76		10	408.32	31	411.69
15	409.92	JAN 05, 1984	406.67		15	408.36	AUG 05	411.49
20	409.60	10	406.60		20	408.51	10	411.24
25	409.40	13	406.40	S	25	408.76	15	411.11
31	408.89	MAR 06	407.02	S	31	409.09	20	410.90
NOV 05	408.60	10	407.09		JUN 05	409.28	25	410.56
10	408.40	15	407.09		10	409.43	31	410.11
15	408.19	20	407.27		15	409.53	SEP 05	409.87
20	407.56	25	407.30		20	409.65	10	409.44
21	407.54	31	407.39		25	410.17	15	409.39
25	407.53	APR 05	407.53		30	410.63	20	408.60
30	407.37	10	407.53		JUL 05	410.95	25	408.46
DEC 05	407.25	15	407.97		10	411.26	30	408.13
10	407.10	20	407.87		15	411.55		
15	406.90	25	407.86		20	411.69		
20	406.70	30	408.19		25	411.80		

WELL 04N 37E 36CCB1 SITE NUMBER 433747112033801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 195 FT, CASED TO 195 FT, PERFORATED 125-135 FT, CONCRETE SEAL 176-218 FT. LSD 4,764.10 FT NGVD OF 1929. MP NO. 1 TOP OF 6-IN CASING WEST SIDE, 1.33 FT ABOVE LSD (SINCE JULY 15, 1981).

RECORDS AVAILABLE 1975, 1977 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 109.38 FEET BELOW LAND SURFACE DATUM SEP 07, 1982.

LOWEST WATER LEVEL 155.90 FEET BELOW LAND SURFACE DATUM APR 24, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	
NOV 17, 1983	117.44	T

WELL 04N 37E 36CCB2 SITE NUMBER 433747112033802

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 500 FT, 3/4-IN PIPE 0-285 FT, PERFORATED 277.5-282.5 FT, GRAVEL FILL 218-500 FT, CONCRETE SEAL 176-218 FT. LSD 4,764.10 FT NGVD OF 1929. MP NO. 2 TOP OF 6-IN CASING WEST SIDE, 1.33 FT ABOVE LSD (SINCE MAR. 17, 1982).

RECORDS AVAILABLE 1977 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 109.80 FEET BELOW LAND SURFACE DATUM SEP 15, 1983.

LOWEST WATER LEVEL 154.17 FEET BELOW LAND SURFACE DATUM APR 14, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	
NOV 17, 1983	117.44	T

WELL 04N 38E 12BBB1 SITE NUMBER 434153111563201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 10-8-6 IN, DEPTH 420.0 FT, 10-IN CASING 0-291.8 FT, 8-IN CASING 280-381.6 FT, 6-IN CASING 364-510 FT, PERFORATED 190-200 FT, 225-235 FT, 265-275 FT, CONCRETE SEAL 420-450 FT. LSD 4,829.55 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE SOUTH SIDE, 1.42 FT ABOVE LSD (SINCE AUG. 2, 1984).

RECORDS AVAILABLE 1970 - 1973, 1974 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.23 FEET BELOW LAND SURFACE DATUM JUL 25, 1983.

LOWEST WATER LEVEL 25.94 FEET BELOW LAND SURFACE DATUM APR 11, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	6.23	S	MAR 12, 1984	21.40	S	JUL 24, 1984	2.44	S	SEP 10, 1984	3.87	S
JAN 16, 1984	16.65	S	MAY 18	22.23	S						

WELL 04N 38E 12BBB2 SITE NUMBER 434153111563202

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 10-8-6 IN, DEPTH 528.0 FT, 10-IN CASING 0-291.8 FT, 8-IN CASING 280-381.6 FT, 6-IN CASING 364-510 FT, 10-IN CASING PERFORATED 190-200 FT, 225-235 FT, 265-275 FT, 6-IN CASING PERFORATED 475-490 FT, 1-IN PIEZOMETER TUBE 0-480.0 FT, PERFORATED 472.5-477.5 FT, GRAVEL FILL 450-528 FT, CONCRETE SEAL 420-450 FT, 528-538 FT. LSD 4,829.55 FT NGVD OF 1929. MP NO. 1 TOP OF 1-IN PIPE SOUTH SIDE, 1.25 FT ABOVE LSD (SINCE AUG. 2, 1984).

RECORDS AVAILABLE 1970 - 1973, 1974 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 26.29 FEET BELOW LAND SURFACE DATUM NOV 15, 1983.

LOWEST WATER LEVEL 48.04 FEET BELOW LAND SURFACE DATUM APR 11, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	26.29	S	MAR 12, 1984	43.10	S	JUL 24, 1984	31.26	S	SEP 10, 1984	27.65	S
JAN 16, 1984	38.05	S	MAY 18	45.05	S						

WELL 04N 38E 12BBB3 SITE NUMBER 434153111563203

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 705.0 FT, 3/4-IN PIEZOMETER TUBE 0-550.0 FT, PERFORATED 542.5-547.5 FT, GRAVEL FILL 538-705 FT, CONCRETE SEAL 528-538 FT, 705-726 FT. LSD 4,829.55 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE SOUTH SIDE, 1.05 FT ABOVE LSD (SINCE JAN. 19, 1970).

RECORDS AVAILABLE 1970 - 1973, 1974 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 26.35 FEET BELOW LAND SURFACE DATUM SEP 10, 1984.

LOWEST WATER LEVEL 51.02 FEET BELOW LAND SURFACE DATUM APR 11, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	30.60	S	MAR 12, 1984	43.09	S	JUL 24, 1984	30.90	S	SEP 10, 1984	26.35	S
JAN 16, 1984	37.45	S	MAY 18	44.62	S						

WELL 04N 38E 123BB4 SITE NUMBER 434153111563204

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 842.0 FT, 3/4-IN PIEZOMETER TUBE 0-760.0 FT, PERFORATED 752.5-757.5 FT, GRAVEL FILL 726-842 FT, CONCRETE SEAL 705-726 FT, 842-850 FT. LSD 4,829.55 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE JAN. 19, 1970).

RECORDS AVAILABLE 1970 - 1973, 1974 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 27.38 FEET BELOW LAND SURFACE DATUM SEP 10, 1974.

LOWEST WATER LEVEL 50.24 FEET BELOW LAND SURFACE DATUM MAY 12, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	31.87	S	MAR 12, 1984	44.62	S	JUL 24, 1984	32.95	S	SEP 10, 1984	29.35	S
JAN 16, 1984	38.50	S	MAY 18	46.73	S						

WELL 04N 38E 123BB5 SITE NUMBER 434153111563205

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 1,026.0 FT, 3/4-IN PIEZOMETER TUBE 0-918.0 FT, PERFORATED 910.5-915.5 FT, GRAVEL FILL 850-1,026.0 FT, CONCRETE SEAL 842-850 FT. LSD 4,829.55 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE SOUTH SIDE, 0.81 FT ABOVE LSD (SINCE JAN. 19, 1970).

RECORDS AVAILABLE 1970 - 1973, 1974 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 79.14 FEET BELOW LAND SURFACE DATUM SEP 10, 1974.

LOWEST WATER LEVEL 110.77 FEET BELOW LAND SURFACE DATUM MAY 25, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	84.65	S	MAR 12, 1984	103.14	S	JUL 24, 1984	88.64	S	SEP 10, 1984	81.29	S
JAN 16, 1984	95.69	S	MAY 18	107.42	S						

WELL 04N 39E 16DAD1 SITE NUMBER 434028111515001

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 77.6 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 4,885 FT NGVD OF 1929. MEASUREMENTS PRIOR TO SEPT. 19, 1973, MADE BY UNIVERSITY OF IDAHO, WATER RESOURCES RESEARCH INSTITUTE. MP NO. 1 TOP OF 6-IN CASING, 5.80 FT BELOW LSD (SINCE SEPT. 19, 1973).

RECORDS AVAILABLE 1970 - 1972, 1973 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.65 FEET BELOW LAND SURFACE DATUM SEP 15, 1983.

LOWEST WATER LEVEL 64.00 FEET BELOW LAND SURFACE DATUM APR 17, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	23.85	S	MAR 12, 1984	56.90	S	JUL 24, 1984	13.33	S	SEP 10, 1984	11.69	S
JAN 16, 1984	47.08	S	MAY 18	56.81	S						

WELL 04N 39E 26DAA1 SITE NUMBER 433849111492601

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 107.8 FT, CASED TO 108 FT. LSD ABOUT 4,922 FT NGVD OF 1929. MEASUREMENTS PRIOR TO JULY 31, 1975, MADE BY UNIVERSITY OF IDAHO WATER RESOURCES RESEARCH INSTITUTE. MP NO. 2 TOP OF 1 1/2-IN PIPE, 1.02 FT ABOVE LSD (SINCE SEPT. 16, 1975).

RECORDS AVAILABLE 1970 - 1972, 1975 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.28 FEET BELOW LAND SURFACE DATUM AUG 14, 1978.

LOWEST WATER LEVEL 85.27 FEET BELOW LAND SURFACE DATUM APR 10, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1983	33.88	S	MAR 12, 1984	76.28	S	JUL 24, 1984	26.17	S	SEP 10, 1984	22.22	S
JAN 16, 1984	61.11	S									

WELL 07S 17E 06ACA1 SITE NUMBER 425053114302201

FORMERLY SITE ID NO. 425100114302701. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 345.1 FT, CASED TO 345 FT, PERFORATED 327-345 FT, OPEN BOTTOM. LSD 3,879.61 FT NGVD OF 1929. RECORDER INSTALLED DEC. 10, 1963. RECORDER REMOVED AUG. 17, 1971. MP NO. 2 TOP OF 6-IN CASING NORTHEAST SIDE, 1.10 FT ABOVE LSD (SINCE DEC. 10, 1963).

RECORDS AVAILABLE 1963 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 307.77 FEET BELOW LAND SURFACE DATUM NOV 27, 1972.

LOWEST WATER LEVEL 323.00 FEET BELOW LAND SURFACE DATUM SEP 18, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 20, 1984	314.81	S	SEP 25, 1984	312.96	S

WELL 08S 19E 05DAB1 SITE NUMBER 424529114150901

FORMERLY SITE ID NO. 424524114150901. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 21 TO 16 IN, DEPTH 329.1 FT, 21-IN CASING 0-4 FT, 16-IN CASING 197-277 FT, CONCRETE SEAL AT 272 FT. LSD 4,075.54 FT NGVD OF 1929. RECORDER INSTALLED APR. 6, 1960. RECORDER REMOVED AUG. 13, 1971. MP NO. 2 TOP OF 2-IN PIPE COUPLING NORTHEAST SIDE, 1.17 FT ABOVE LSD (SINCE AUG. 13, 1971).

RECORDS AVAILABLE 1957 - 1959, 1960 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 257.71 FEET BELOW LAND SURFACE DATUM OCT 07, 1957.

LOWEST WATER LEVEL 280.03 FEET BELOW LAND SURFACE DATUM JUN 02, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 30, 1984	277.58	V	SEP 25, 1984	271.92	V

WELL 09S 19E 25BBC1 SITE NUMBER 423659114111601

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 207.6 FT, CASED TO 134 FT, PERFORATED 114-134 FT. LSD 3,932.37 FT NGVD OF 1929. RECORDER INSTALLED APR. 12, 1960. RECORDER REMOVED JULY 21, 1960. MP NO. 1 TOP OF 16-IN CASING SOUTH SIDE, 2.00 FT ABOVE LSD (SINCE JULY 21, 1960).

RECORDS AVAILABLE 1957 - 1959, 1960, 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 101.06 FEET BELOW LAND SURFACE DATUM OCT 01, 1957.

LOWEST WATER LEVEL 129.89 FEET BELOW LAND SURFACE DATUM APR 22, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 25, 1983	121.54	S	JAN 25, 1984	124.67	S	APR 24, 1984	126.68	S	JUL 19, 1984	123.48	S
NOV 21	121.27	S	FEB 22	126.03	S	MAY 22	125.77	S	AUG 22	121.50	S
DEC 20	122.71	S	MAR 20	126.49	S	JUN 19	124.52	S	SEP 25	120.07	S

WELL 09S 20E 01DAA1 SITE NUMBER 424016114025801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, REPORTED DEPTH 400 FT, 8-IN CASING 0-10.6 FT, 6-IN CASING 340-400 FT, PERFORATED 340-400 FT. LSD 4,211.31 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED SEPT. 7, 1950. RECORDER REMOVED OCT. 11, 1950. RECORDER INSTALLED OCT. 17, 1950. RECORDER REMOVED DEC. 10, 1950. RECORDER INSTALLED JUNE 11, 1951. MP NO. 1 TOP OF 8-IN CASING EAST SIDE, 1.70 FT ABOVE LSD (SINCE SEPT. 6, 1950).

RECORDS AVAILABLE 1950 - 1971, 1977, 1978, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 231.80 FEET BELOW LAND SURFACE DATUM FEB 03, 1972.

LOWEST WATER LEVEL 373.81 FEET BELOW LAND SURFACE DATUM MAY 23, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 10, 1983	368.51		NOV 30, 1983	368.04	S	APR 24, 1984	370.38	S	AUG 22, 1984	368.97	S
15	368.33		DEC 20	368.39	S	MAY 11	370.21	S	SEP 26	366.82	S
20	368.34		JAN 18, 1984	369.29	S	22	370.01	S			
25	368.31		FEB 27	370.21	S	JUN 19	369.53	V			
NOV 01	368.30	S	MAR 14	370.48	S	JUL 06	369.38	S			

WELL 10S 20E 27BCC1 SITE NUMBER 423134114062601

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, DEPTH 735.0 FT, CASED TO 20 FT. LSD 4,182.13 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED OCT. 29, 1952. RECORDER REMOVED JULY 30, 1953. MP NO. 2 TOP OF 2-IN PIPE SOUTH SIDE, SET IN CONCRETE WELL COVER, 1.30 FT ABOVE LSD (SINCE APR. 1, 1959).

RECORDS AVAILABLE 1952 - 1953, 1954, 1955 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 314.90 FEET BELOW LAND SURFACE DATUM OCT 29, 1952.

LOWEST WATER LEVEL 348.49 FEET BELOW LAND SURFACE DATUM JUL 22, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 14, 1984	338.67	S	SEP 26, 1984	340.02	S

WELL 10S 21E 26AAA1 SITE NUMBER 423159113570401

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 525 FT, CASED TO 302 FT. LSD 4,197.07 FT NGVD OF 1929. RECORDER INSTALLED SEPT. 17, 1980. RECORDER REMOVED MAR. 1, 1983. MP NO. 1 TOP OF 6-IN CASING EAST SIDE, 1.00 FT ABOVE LSD (SINCE OCT. 6, 1976).

RECORDS AVAILABLE 1976 - 1979, 1980 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 246.40 FEET BELOW LAND SURFACE DATUM MAY 13, 1977.

LOWEST WATER LEVEL 265.85 FEET BELOW LAND SURFACE DATUM JUN 16, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 20, 1983	262.90	V	JAN 18, 1984	262.98	V	APR 17, 1984	259.99	V	JUL 06, 1984	257.92	V
NOV 07	263.80	V	FEB 21	262.03	V	MAY 11	259.54	V	AUG 13	258.41	V
DEC 22	263.23	V	MAR 23	260.63	V	JUN 15	258.23	V	SEP 13	259.41	S

WELL 10S 21E 28BCB1 SITE NUMBER 423145114003001

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 603 FT, CASED TO 224 FT, CONCRETE SEAL 210-224 FT. LSD 4,157.26 FT NGVD OF 1929. MP NO. 2 TOP OF 2-IN PIPE WEST SIDE, 1.02 FT ABOVE LSD (SINCE SEPT. 15, 1978).

RECORDS AVAILABLE 1975, 1977 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 299.18 FEET BELOW LAND SURFACE DATUM SEP 14, 1977.

LOWEST WATER LEVEL 314.89 FEET BELOW LAND SURFACE DATUM APR 22, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 20, 1983	307.08	S	JAN 18, 1984	309.47	S	APR 17, 1984	312.95	S	JUL 06, 1984	308.91	S
NOV 07	306.12	S	FEB 21	310.88	S	MAY 11	312.22	S	AUG 13	306.79	S
DEC 22	307.83	S	MAR 13	312.44	S	JUN 15	310.12	S	SEP 13	305.30	S

WELL 53N 04W 24BBA1 SITE NUMBER 475558116464701

DUG STOCK AND DOMESTIC WATER-TABLE WELL IN FLUVIOGLACIAL GRAVEL OF QUATERNARY AGE, DIAM 39 IN, DEPTH 480.0 FT, CRIBBED WITH WOOD TO 480 FT. LSD 2,486.53 FT NGVD OF 1929. APR. 26, 1965, WELL WAS DEEPENED AND RECASED TO A DEPTH OF 485.2 FT, 25-IN CASING 9-25 FT, 25-IN WOOD CRIBBING 25-303 FT, 20-IN CASING 252-488 FT, SLOTTED PERFORATIONS 449-488 FT. MEASUREMENTS PRIOR TO 1938 BY WASHINGTON WATER POWER COMPANY. MEASUREMENTS FROM JAN. 1938 TO JULY 1942 BY U.S. GEOLOGICAL SURVEY AND WASHINGTON WATER POWER COMPANY. MP NO. 15 TOP OF 1/2-IN PIPE TEE SOUTH SIDE OF PUMP, 4.50 FT ABOVE LSD (SINCE JULY 15, 1968).

RECORDS AVAILABLE 1929 - 1938, 1939 - 1941, 1942 - 1964, 1965 TO CURRENT YEAR.

HIGHEST WATER LEVEL 447.38 FEET BELOW LAND SURFACE DATUM AUG 13, 1956.

LOWEST WATER LEVEL 478.14 FEET BELOW LAND SURFACE DATUM JAN 15, 1932.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1983	455.00 T	JAN 24, 1984	456.71 T	APR 24, 1984	455.39 T	JUL 18, 1984	453.96 S
NOV 23	455.61 T	FEB 22	456.89 T	MAY 24	455.10 T	AUG 16	453.27 P T
DEC 20	456.28 T	MAR 26	456.84 P T	JUN 20	454.30 P T	SEP 25	453.50 R S

WELL 53N 04W 28CAB1 SITE NUMBER 475439116503401

DRILLED OBSERVATION WATER-TABLE WELL IN POORLY SORTED TILL OF QUATERNARY AGE, DIAM 6 IN, DEPTH 448.6 FT, CASED TO 440 FT, 6-IN SCREEN 438-448 FT. LSD 2,425.27 FT NGVD OF 1929. MP NO. 1 TOP OF CASING NORTHEAST SIDE, 2.30 FT ABOVE LSD (SINCE JULY 16, 1971).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 399.57 FEET BELOW LAND SURFACE DATUM AUG 22, 1974.

LOWEST WATER LEVEL 419.89 FEET BELOW LAND SURFACE DATUM MAR 24, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 1983	404.16 S	JAN 24, 1984	405.60 S	APR 24, 1984	404.53 S	JUL 18, 1984	402.09 S
NOV 23	404.66 S	FEB 22	405.68 S	MAY 24	403.52 S	AUG 15	401.89 S
DEC 20	405.03 T	MAR 26	405.49 S	JUN 20	402.68 S	SEP 25	402.19 S

WELL 53N 02W 09AAC1 SITE NUMBER 475736116341701

DRILLED UNUSED WATER-TABLE WELL IN FLUVIOGLACIAL SAND AND GRAVEL OF QUATERNARY AGE, DIAM 16 IN, REPORTED DEPTH 351 FT, CASED TO 351 FT, PERFORATED 280-345 FT. LSD 2,291.46 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. NOV. 1966 WELL BECAME BRIDGED, WELL DRILLER DROVE OBSTRUCTION DOWN TO 335 FT. AUG. 1968 DEPTH SOUNDED AT 331 FT. MEASUREMENTS FROM DEC. 13, 1943, THROUGH DEC. 29, 1948, ARE AIRLINE MEASUREMENTS MADE TO THE NEAREST FOOT BY A. E. MOLTEN, FARRAGUT INSTITUTE. RECORDER INSTALLED OCT. 25, 1950. RECORDER REMOVED FEB. 4, 1962. MP NO. 9 TOP OF 2-IN PIPE, 0.48 FT ABOVE LSD (SINCE FEB. 23, 1983).

RECORDS AVAILABLE 1943 - 1948, 1949, 1950 - 1962, 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 228.00 FEET BELOW LAND SURFACE DATUM JUN 08, 1948.

LOWEST WATER LEVEL 252.00 FEET BELOW LAND SURFACE DATUM JAN 02, 1944.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 1983	235.66 S	JAN 24, 1984	236.73 S	APR 24, 1984	237.77 S	JUL 18, 1984	232.22 S
NOV 23	236.33 S	FEB 22	237.82 S	MAY 24	236.10 S	AUG 16	231.46 S
DEC 20	237.84 S	MAR 26	237.22 S	JUN 20	233.69 S	SEP 25	231.61 S

WELL 51N 05W 33DBA1 SITE NUMBER 474344116583001

DUG DOMESTIC WATER-TABLE WELL IN FLUVIOGLACIAL GRAVEL OF QUATERNARY AGE, DIAM 5 FT, DEPTH 174.4 FT, CONCRETE CASING TO 174 FT, OPEN BOTTOM. LSD 2,137.60 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MEASUREMENTS PRIOR TO JAN. 1938 BY WASHINGTON WATER POWER COMPANY. MEASUREMENTS FROM 1938 THROUGH JUNE 1950 BY U.S. GEOLOGICAL SURVEY AND WASHINGTON WATER POWER COMPANY. MP NO. 4 TOP OF 1 1/2-IN PIPE EAST SIDE OF PUMP, 2.13 FT ABOVE LSD (SINCE AUG. 27, 1959).

RECORDS AVAILABLE 1928 - 1937, 1938 - 1961, 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 134.14 FEET BELOW LAND SURFACE DATUM JUN 29, 1950.

LOWEST WATER LEVEL 165.09 FEET BELOW LAND SURFACE DATUM FEB 11, 1932.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 25, 1983	146.07	S	JAN 24, 1984	145.65	S	APR 24, 1984	143.00	S	JUL 18, 1984	143.06	S
NOV 23	146.39	S	FEB 22	145.16	S	MAY 24	142.71	S	AUG 16	143.72	S
DEC 20	145.89	S	MAR 26	144.36	S	JUN 20	142.04	S	SEP 25	144.44	S

WELL 39N 05W 07DDC1 SITE NUMBER 464349117001301

DRILLED UNUSED ARTESIAN WELL IN COLUMBIA RIVER GROUP, DIAM 8 IN, DEPTH 231.0 FT, CASING DEPTH NOT AVAILABLE. LSD 2,560.93 FT NGVD OF 1929. JUNE 6, 1968, WELL WAS DEEPENED TO A DEPTH OF 240 FT. MEASUREMENTS FROM MAY 29, 1937, THROUGH OCT. 7, 1940, FROM WSP'S 845, 885, AND 910. MEASUREMENTS FROM NOV. 27, 1960, THROUGH JULY 27, 1964, MADE BY U.S. GEOLOGICAL SURVEY AND UNIVERSITY OF IDAHO. MEASUREMENTS FROM AUG. 3, 1964, THROUGH MAY 24, 1965, MADE BY UNIVERSITY OF IDAHO. MEASUREMENTS FROM JUNE 1, 1965, THROUGH DEC. 14, 1969, MADE BY IDAHO BUREAU OF MINES & GEOLOGY. MP NO. 1 TOP OF CASING SOUTHEAST SIDE AT LSD (SINCE MAY 2, 1947).

RECORDS AVAILABLE 1937 - 1940, 1947 - 1964, 1965 - 1966, 1967 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 50.10 FEET BELOW LAND SURFACE DATUM APR 19, 1938.

LOWEST WATER LEVEL 89.21 FEET BELOW LAND SURFACE DATUM DEC 17, 1958.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 26, 1983	51.70	S	JAN 20, 1984	51.87	S	MAY 24, 1984	51.37	S	AUG 20, 1984	51.65	S
NOV 17	51.71	S	MAR 23	51.01	S	JUN 22	51.52	S	SEP 29	50.97	S
DEC 16	52.15	S	MAY 04	50.77	S	JUL 23	51.24	S			

WELL 21N 22E 15BAC1 SITE NUMBER 450915113504501

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 37 FT, CASED TO 36 FT, PERFORATED 26-34 FT. LSD ABOUT 4,045 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN HOLE IN WELL SEAL SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE SEPT. 13, 1973).

RECORDS AVAILABLE 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.68 FEET BELOW LAND SURFACE DATUM SEP 15, 1977.

LOWEST WATER LEVEL 18.60 FEET BELOW LAND SURFACE DATUM JAN 29, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	14.48	S	MAY 09, 1984	12.33	S	JUL 26, 1984	4.17	S	SEP 12, 1984	5.14	S
MAR 15, 1984	17.40	S									

WELL 21N 22E 31DAA1 SITE NUMBER 450620113533401

FORMERLY SITE ID NO. 450711113533401. DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 33 FT, CASED TO 33 FT, OPEN BOTTOM. LSD ABOUT 4,030 FT NGVD OF 1929. MP NO. 1 TOP OF 1/4-IN BUSHING IN WELL SEAL WEST SIDE, 0.60 FT ABOVE LSD (SINCE SEPT. 11, 1973).

RECORDS AVAILABLE 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 4.03 FEET BELOW LAND SURFACE DATUM JUN 09, 1978.

LOWEST WATER LEVEL 14.44 FEET BELOW LAND SURFACE DATUM MAR 01, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	6.75	S	MAR 15, 1984	7.37	S	JUL 25, 1984	4.70	S	SEP 12, 1984	4.64	S
JAN 18, 1984	7.99	S	MAY 09	5.43	S						

WELL 19N 24E 08CDD1 SITE NUMBER 445904113382601

DRILLED STOCK WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 8 IN, REPORTED DEPTH 59 FT, CASED TO 48 FT, PERFORATED 33-45 FT. LSD ABOUT 4,780 FT NGVD OF 1929. MP NO. 1 TOP OF 5/8-IN HOLE IN WELL SEAL SOUTHWEST SIDE, 0.80 FT ABOVE LSD (SINCE DEC. 8, 1973).

RECORDS AVAILABLE 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.56 FEET BELOW LAND SURFACE DATUM JUN 04, 1979.

LOWEST WATER LEVEL 20.27 FEET BELOW LAND SURFACE DATUM APR 17, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	19.32	S	MAR 15, 1984	19.51	S	JUL 26, 1984	15.48	S	SEP 12, 1984	13.86	S
JAN 18, 1984	19.54	S	MAY 09	18.88	S						

WELL 18N 24E 20DDA1 SITE NUMBER 445212113374501

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 39.7 FT, CASED TO 39.7 FT. LSD ABOUT 5,170 FT NGVD OF 1929. MP NO. 2 TOP OF 3/8-IN PIPE NORTHEAST SIDE, 2.18 FT BELOW LSD (SINCE JAN. 11, 1976).

RECORDS AVAILABLE 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 4.35 FEET BELOW LAND SURFACE DATUM JUN 25, 1977.

LOWEST WATER LEVEL 29.07 FEET BELOW LAND SURFACE DATUM APR 22, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	21.28	S	MAR 15, 1984	24.61	S	JUL 26, 1984	8.60	S	SEP 12, 1984	6.93	S
JAN 18, 1984	25.33	S	MAY 09	25.82	S						

WELL 14N 22E 35DBD1 SITE NUMBER 443017113493001

DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 16 IN, DEPTH 249.4 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 5,291 FT NGVD OF 1929. MP NO. 1 TOP OF CASING NORTH SIDE, 1.00 FT ABOVE LSD (SINCE MAY 25, 1971).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 22.79 FEET BELOW LAND SURFACE DATUM SEP 11, 1984.

LOWEST WATER LEVEL 57.59 FEET BELOW LAND SURFACE DATUM JUN 06, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	33.07	S	JAN 18, 1984	35.76	S	APR 04, 1984	43.07	S	AUG 07, 1984	22.84	S
30	35.13	S	FEB 09	37.84	S	MAY 09	45.17	S	23	22.82	S
DEC 14	36.60	S	MAR 08	42.03	S	JUN 05	34.79	S	SEP 11	22.79	S
JAN 04, 1984	33.91	S	13	42.41	S	JUL 25	25.23	S			

WELL 03S 20E 02DDA1 SITE NUMBER 431116114021301

FORMERLY SITE ID NO. 431116114020901. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, DEPTH 571.5 FT, CASED TO 571.5 FT, PERFORATED 536-566 FT. AUG. 4, 1972, WELL HAD FILLED IN TO A DEPTH OF 569.3 FT. LSD ABOUT 4,606 FT NGVD OF 1929. MP NO. 2 TOP OF 1-IN PIPE IN CASING CAP NORTHEAST SIDE, 0.86 FT ABOVE LSD (SINCE AUG. 4, 1972).

RECORDS AVAILABLE 1972 - 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 515.06 FEET BELOW LAND SURFACE DATUM JUL 21, 1983.

LOWEST WATER LEVEL 546.17 FEET BELOW LAND SURFACE DATUM MAR 30, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	522.54	S	MAR 16, 1984	534.11	S	JUL 25, 1984	531.96	S	SEP 18, 1984	529.47	S
JAN 13, 1984	526.75	S	MAY 11	533.10	S						

WELL 05S 17E 26ACA1 SITE NUMBER 425746114240101

FORMERLY SITE ID NO. 425742114240401. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN. DEPTH 253.5 FT, CASED TO 201 FT. LSD 3,972.64 FT NGVD OF 1929. RECORDER INSTALLED JULY 29, 1959. RECORDER CHANGED TO DIGITAL JULY 24, 1975. MP NO. 1 TOP OF 16-IN CASING NORTHWEST SIDE, 1.30 FT ABOVE LSD (SINCE AUG. 5, 1957).

RECORDS AVAILABLE 1957 - 1956, 1959 TO CURRENT YEAR.

HIGHEST WATER LEVEL 177.99 FEET BELOW LAND SURFACE DATUM SEP 28, 1958.

LOWEST WATER LEVEL 209.07 FEET BELOW LAND SURFACE DATUM MAY 05, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1983	184.77		JAN 04, 1984	190.56		APR 10, 1984	193.39	JUL 10, 1984	184.76
05	184.98		13	190.48	S	14	193.95	15	184.55
10	185.19		15	190.89		15	193.75	20	184.19
15	185.26		20	191.03		20	193.48	25	184.06
20	185.46		25	190.88		25	192.76	31	183.71
25	186.11		31	191.05		30	191.86	AUG 05	183.39
31	186.23		FEB 05	191.31		MAY 05	189.94	10	183.31
NOV 05	186.64		10	191.15		10	188.01	15	183.30
10	186.98		15	191.74		15	186.34	20	183.33
15	187.54		20	192.06		20	185.98	25	183.19
20	187.40		25	192.08		25	186.23	31	183.07
25	187.97		29	192.39		31	186.50	SEP 05	182.99
30	188.47		MAR 05	192.80		JUN 05	186.25	10	182.70
DEC 05	189.02		10	193.12		10	186.06	11	182.41
10	189.26		15	193.15		15	185.85	15	182.67
15	189.77		20	193.32		20	185.38	20	182.54
20	190.18		25	193.37		25	185.31	22	182.37
25	190.40		31	193.28		30	185.27	25	182.92
31	190.48		APR 05	193.38		JUL 05	184.91	30	182.69

WELL 05S 23E 17CAA1 SITE NUMBER 425909113444101

FORMERLY SITE ID NO. 425907113444001. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 332.7 FT, CASED TO 333 FT, PERFORATED 311-331 FT, STEEL PLATE BOTTOM SEAL. LSD 4,374.87 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED AUG. 21, 1957. MP NO. 1 TOP OF 6-IN CASING NORTH-EAST SIDE, 1.00 FT ABOVE LSD (SINCE JULY 2, 1957).

RECORDS AVAILABLE 1957 TO CURRENT YEAR.

HIGHEST WATER LEVEL 303.04 FEET BELOW LAND SURFACE DATUM JUL 02, 1957.

LOWEST WATER LEVEL 317.02 FEET BELOW LAND SURFACE DATUM SEP 05, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	315.01	DEC 30, 1983	313.08		APR 15, 1984	311.68	JUL 10, 1984	311.60
10	314.99	JAN 05, 1984	313.07		20	311.43	15	311.76
11	315.02	10	313.00		25	311.36	20	311.89
15	314.90	15	312.70		30	311.35	25	312.00
20	314.81	17	312.70		MAY 05	311.28	31	312.23
25	314.80	FEB 12	312.40	S	10	311.26	AUG 05	312.31
31	314.57	15	312.35		15	311.18	10	312.38
NOV 05	314.40	20	312.28		20	311.19	15	312.43
10	314.18	25	312.33		25	311.19	20	312.43
15	314.10	29	312.22		31	311.20	25	312.49
20	313.83	MAR 05	312.19		JUN 04	311.06	31	312.52
25	313.74	10	312.09		05	311.12	SEP 05	312.42
30	313.65	15	311.99		10	311.19	10	312.36
DEC 05	313.55	20	311.96		15	311.30	15	312.45
10	313.48	25	311.80		20	311.38	20	312.43
15	313.35	31	311.73		25	311.42	25	312.47
20	313.19	APR 05	311.72		30	311.50	30	312.40
25	313.13	10	311.73		JUL 05	311.52		

WELL 07N 38E 23DBA1 SITE NUMBER 435506111563101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, DEPTH 236.0 FT, CASED TO 177 FT. LSD 4,852.35 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED APR. 9, 1960. RECORDER CHANGED TO DIGITAL MAR. 12, 1973. MP NO. 1 TOP OF 16-IN CASING NORTHEAST SIDE, 1.95 FT ABOVE LSD (SINCE JULY 23, 1965).

RECORDS AVAILABLE 1958 - 1959, 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 36.85 FEET BELOW LAND SURFACE DATUM SEP 30, 1984.

LOWEST WATER LEVEL 45.74 FEET BELOW LAND SURFACE DATUM APR 16, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	39.43	JAN 05, 1984	40.54	APR 05, 1984	41.97	JUL 10, 1984	38.98
10	39.41	10	40.63	10	41.85	15	38.89
13	39.22	15	40.81	15	42.01	17	38.72
15	39.42	20	40.91	20	41.82	20	38.72
20	39.43	25	40.84	25	41.50	25	38.62
25	39.62	31	41.03	30	41.74	31	38.38
31	39.48	FEB 05	41.18	MAY 05	41.56	AUG 05	38.23
NOV 05	39.51	10	41.10	10	41.52	10	38.15
10	39.56	15	41.37	15	41.37	15	38.04
15	39.70	20	41.48	20	41.23	20	37.86
20	39.43	25	41.47	25	41.14	25	37.74
25	39.55	29	41.55	31	40.91	31	37.52
30	39.79	MAR 05	41.73	JUN 05	40.51	SEP 05	37.47
DEC 05	39.91	10	41.83	10	40.26	10	37.28
10	39.85	15	41.83	15	40.00	11	37.11
15	40.00	20	41.97	20	39.73	15	37.22
20	40.06	25	42.01	25	39.54	20	37.02
25	40.17	31	42.01	30	39.28	25	37.12
31	40.50	APR 03	42.14	JUL 05	39.06	30	36.85

WELL 07N 38E 23DBA2 SITE NUMBER 435506111563102

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 IN, REPORTED DEPTH 152 FT, CASED TO 154 FT, PERFORATED 65-140 FT. AUG. 28, 1958, WELL HAD FILLED WITH SAND THROUGH PERFORATIONS TO A DEPTH OF 84 FT. LSD 4,852.38 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED APR. 9, 1960. RECORDER CHANGED TO DIGITAL MAR. 12, 1975. MP NO. 1 TOP OF CASING COUPLING NORTH SIDE, 0.70 FT ABOVE LSD (SINCE APR. 9, 1960).

RECORDS AVAILABLE 1958 - 1959, 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 33.24 FEET BELOW LAND SURFACE DATUM SEP 20, 1984.

LOWEST WATER LEVEL 39.75 FEET BELOW LAND SURFACE DATUM JUN 03, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1983	34.76	JAN 05, 1984	36.16	APR 02, 1984	38.03	JUN 30, 1984	35.65
05	34.87	10	36.27	03	38.03	JUL 05	35.37
10	34.93	15	36.40	05	37.93	10	35.13
15	35.00	20	36.50	10	37.58	15	34.92
20	35.03	25	36.56	15	37.54	20	34.67
25	35.12	31	36.74	20	37.33	25	34.48
31	35.12	FEB 05	36.87	25	37.19	31	34.27
NOV 05	35.16	10	36.95	30	37.14	AUG 05	34.12
10	35.20	15	37.09	MAY 05	37.05	10	33.99
15	35.31	20	37.20	10	37.00	15	33.88
20	35.24	25	37.30	15	36.93	20	33.76
25	35.37	29	37.38	20	36.88	25	33.65
30	35.50	MAR 05	37.49	25	36.82	31	33.35
DEC 05	35.62	10	37.60	31	36.76	SEP 05	33.25
10	35.67	15	37.69	JUN 05	36.60	20	33.24
15	35.77	20	37.81	10	36.45	25	33.50
20	35.85	25	37.90	15	36.31	30	33.44
25	35.90	27	37.97	20	36.11		
31	36.09	31	37.99	25	35.91		

WELL 07N 38E 23DBA3 SITE NUMBER 435506111563201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, DEPTH 201.5 FT, CASED TO 181 FT. LSD 4,855.75 FT NGVD OF 1929. MP NO. 3 TOP OF 1 1/2-IN PIPE COUPLING, 3.54 FT ABOVE LSD (SINCE JUNE 28, 1967).

RECORDS AVAILABLE 1958 - 1961, 1967 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 36.86 FEET BELOW LAND SURFACE DATUM OCT 02, 1974.

LOWEST WATER LEVEL 47.87 FEET BELOW LAND SURFACE DATUM MAY 16, 1961.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	39.11	S	MAR 27, 1984	41.76	S	JUL 18, 1984	38.39	S	SEP 17, 1984	37.13	S
JAN 13, 1984	40.18	S	MAY 25	40.58	S						

WELL 07N 38E 23DBA6 SITE NUMBER 435506111563204

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 632.5 FT, 3/4-IN PIEZOMETER TUBE 0-630 FT, PERFORATED 622.5-627.5 FT, GRAVEL FILL 613-632.5 FT, CONCRETE SEAL 595-613 FT. LSD 4,855.75 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE WEST SIDE, 3.38 FT ABOVE LSD (SINCE JUNE 28, 1967).

RECORDS AVAILABLE 1967 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 41.12 FEET BELOW LAND SURFACE DATUM OCT 02, 1974.

LOWEST WATER LEVEL 49.19 FEET BELOW LAND SURFACE DATUM MAY 17, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	44.44	S	MAR 27, 1984	45.76	S	JUL 18, 1984	42.40	S	SEP 17, 1984	40.89	S
JAN 13, 1984	44.30	S	MAY 25	44.80	S						

WELL 07N 39E 29CDC1 SITE NUMBER 435355111532401

DRIVEN OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 29.7 FT, CASED TO 29.7 FT, SAND POINT 27.7-29.7 FT. LSD 4,949.95 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 1 1/4-IN PIPE SOUTH SIDE, 0.30 FT ABOVE LSD (SINCE NOV. 5, 1966).

RECORDS AVAILABLE 1966, 1967 - 1971, 1972 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.11 FEET BELOW LAND SURFACE DATUM AUG 31, 1970.

LOWEST WATER LEVEL 18.06 FEET BELOW LAND SURFACE DATUM APR 17, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	6.59	S	MAR 28, 1984	15.55	S	JUL 18, 1984	3.50	S	SEP 17, 1984	3.19	S
JAN 18, 1984	10.05	S	MAY 25	11.17	S						

WELL 07N 39E 34CCB1 SITE NUMBER 435314111511902

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, REPORTED DEPTH 342 FT, CASED TO 161.5 FT, CONCRETE SEAL 150-161.5 FT. LSD 4,828.31 FT NGVD OF 1929. RECORDER INSTALLED AUG. 19, 1969. RECORDER REMOVED JUNE 26, 1980. MP NO. 1 TOP OF 8-IN CASING EAST SIDE, 0.70 FT ABOVE LSD (SINCE AUG. 19, 1969).

RECORDS AVAILABLE 1969 - 1979, 1980, 1981 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.09 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.

LOWEST WATER LEVEL 18.33 FEET BELOW LAND SURFACE DATUM APR 15, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 30, 1983	11.83	S	MAR 28, 1984	14.65	S	JUL 18, 1984	10.42	S	SEP 17, 1984	9.09	S
JAN 18, 1984	13.15	S	MAY 29	13.34	S						

WELL 07N 42E 32BBB1 SITE NUMBER 435358111321301

DRILLED OBSERVATION WATER-TABLE WELL IN HUCKLEBERRY RIDGE TUFF, DIAM 4 TO 1 1/2 IN, REPORTED DEPTH 500 FT, 4-IN CASING 0-20 FT, 1 1/2-IN CASING 0-500 FT, PERFORATED 480-500 FT. LSD 5,356.88 FT NGVD OF 1929. MP NO. 1 TOP OF 4-IN CASING SOUTH SIDE, 0.68 FT ABOVE LSD (SINCE JULY 27, 1972).

RECORDS AVAILABLE 1972 - 1975, 1976, 1977, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 309.49 FEET BELOW LAND SURFACE DATUM MAR 16, 1977.

LOWEST WATER LEVEL 458.94 FEET BELOW LAND SURFACE DATUM SEP 10, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	431.35	V	MAR 26, 1984	436.95	V	JUL 19, 1984	421.11	V	SEP 20, 1984	419.05	V
JAN 16, 1984	423.77	V	MAY 29	421.85	V						

WELL 06N 38E 02DBD1 SITE NUMBER 435228111563401

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 5 TO 4 IN, REPORTED DEPTH 325 FT, 5-IN CASING 0-255 FT, 4-IN CASING 255-328 FT, OPEN BOTTOM, GRAVEL FILL 325-365 FT, CONCRETE SEAL 365-410 FT. LSD 4,884.70 FT NGVD OF 1929. MP NO. 2 TOP OF 3/4-IN PIPE SOUTH SIDE, 2.11 FT ABOVE LSD (SINCE JUNE 17, 1977).

RECORDS AVAILABLE 1975 - 1977, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 70.26 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.

LOWEST WATER LEVEL 79.13 FEET BELOW LAND SURFACE DATUM APR 04, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	72.84	S	MAR 27, 1984	75.21	S	JUL 18, 1984	71.79	S	SEP 17, 1984	70.26	S
JAN 13, 1984	73.77	S	MAY 29	74.18	S						

WELL 06N 38E 02DBD2 SITE NUMBER 435228111563402

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 684.5 FT, 3/4-IN PIEZOMETER TUBE 0-626 FT, PERFORATED 618.5-623.5 FT, GRAVEL FILL 410-684.5 FT, CONCRETE SEAL 365-410 FT. LSD 4,884.70 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN PIPE SOUTH SIDE, 1.14 FT ABOVE LSD (SINCE JUNE 17, 1977).

RECORDS AVAILABLE 1977 - 1978, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 74.86 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.

LOWEST WATER LEVEL 82.51 FEET BELOW LAND SURFACE DATUM MAR 18, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	77.15	S	MAR 27, 1984	79.10	S	JUL 18, 1984	76.11	S	SEP 17, 1984	74.86	S
JAN 13, 1984	77.84	S	MAY 29	78.10	S						

WELL 06N 38E 25AC34 SITE NUMBER 434917111553102

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, REPORTED DEPTH 681 FT, CASED TO 483.3 FT. LSD 4,826.70 FT NGVD OF 1929. RECORDER INSTALLED MAY 16, 1968. RECORDER REMOVED JUNE 12, 1968. RECORDER INSTALLED FEB. 16, 1970. RECORDER REMOVED DEC. 1, 1972. MP NO. 1 TOP OF 8-IN CASING EAST SIDE, 0.72 FT ABOVE LSD (SINCE JUNE 16, 1968).

RECORDS AVAILABLE 1968, 1969, 1970 - 1972, 1973 - 1975, 1976, 1977 - 1978, 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 12.81 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.

LOWEST WATER LEVEL 21.44 FEET BELOW LAND SURFACE DATUM MAR 17, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	15.48	S	MAR 27, 1984	18.18	S	JUL 18, 1984	14.47	S	SEP 17, 1984	12.81	S
JAN 13, 1984	16.56	S	MAY 29	17.03	S						

WELL 06N 39E 10BBB1 SITE NUMBER 435209111512101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 260.0 FT, CASED TO 168 FT. LSD 4,834.20 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF PIPE COUPLING IN CASING CAP, 1.80 FT ABOVE LSD (SINCE DEC. 14, 1962).

RECORDS AVAILABLE 1962 - 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.07 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.

LOWEST WATER LEVEL 23.68 FEET BELOW LAND SURFACE DATUM MAR 14, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 30, 1983	17.78	S	MAR 28, 1984	20.55	S	JUL 18, 1984	16.57	S	SEP 17, 1984	15.07	S
JAN 18, 1984	19.07	S	MAY 29	19.19	S						

WELL 06N 39E 10BBB2 SITE NUMBER 435209111512102

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 317 FT, 3/4-IN PIEZOMETER TUBE 0-316 FT, PERFORATED 307.5-312.5 FT, GRAVEL FILL 290-317 FT, CONCRETE SEAL 265-290 FT, 317-339 FT. LSD 4,834.20 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN PIPE, 2.32 FT ABOVE LSD (SINCE JUNE 12, 1967).

RECORDS AVAILABLE 1967 - 1969, 1970 - 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.16 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.

LOWEST WATER LEVEL 23.80 FEET BELOW LAND SURFACE DATUM MAR 13, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 30, 1983	17.83	S	MAR 28, 1984	20.61	S	JUL 18, 1984	16.67	S	SEP 17, 1984	15.16	S
JAN 18, 1984	19.16	S	MAY 29	19.36	S						

WELL 06N 39E 10BBB3 SITE NUMBER 435209111512103

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DEPTH 545 FT, 3/4-IN PIEZOMETER TUBE 0-387 FT, PERFORATED 376.5-381.5 FT, GRAVEL FILL 339-545 FT, CONCRETE SEAL 317-339 FT, 545-570 FT. LSD 4,834.20 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN PIPE, 2.02 FT ABOVE LSD (SINCE JUNE 12, 1967).

RECORDS AVAILABLE 1967 - 1969, 1970 - 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.07 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.

LOWEST WATER LEVEL 23.74 FEET BELOW LAND SURFACE DATUM MAR 14, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 30, 1983	17.80	S	MAR 28, 1984	20.55	S	JUL 18, 1984	16.60	S	SEP 17, 1984	15.07	S
JAN 18, 1984	19.13	S	MAY 29	19.31	S						

WELL 06N 39E 10BBB4 SITE NUMBER 435209111512104

DRILLED OBSERVATION ARTESIAN WELL IN HUCKLEBERRY RIDGE TUFF, DEPTH 636.8 FT, 3/4-IN PIEZOMETER TUBE 0-600 FT, PERFORATED 592.5-597.5 FT, GRAVEL FILL 570-636.5 FT, CONCRETE SEAL 545-570 FT. LSD 4,834.20 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN PIPE, 1.74 FT ABOVE LSD (SINCE JUNE 12, 1967).

RECORDS AVAILABLE 1967 - 1969, 1970 - 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.26 FEET BELOW LAND SURFACE DATUM OCT 11, 1967.

LOWEST WATER LEVEL 21.64 FEET BELOW LAND SURFACE DATUM MAY 18, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 30, 1983	16.72	S	MAR 28, 1984	17.90	S	JUL 18, 1984	17.40	S	SEP 17, 1984	15.75	S
JAN 18, 1984	16.91	S	MAY 29	18.33	S						

WELL 06N 39E 13ABA1   SITE NUMBER 435118111481601

DRIVEN OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 29.9 FT, CASED TO 29.9 FT, PERFORATED 27.9-29.9 FT. LSD 4,863.51 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 1 1/4-IN PIPE NORTH SIDE, 1.10 FT ABOVE LSD (SINCE NOV. 8, 1966).

RECORDS AVAILABLE 1966, 1967 - 1971, 1977 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.14 FEET BELOW LAND SURFACE DATUM JUL 30, 1970.

LOWEST WATER LEVEL 19.04 FEET BELOW LAND SURFACE DATUM APR 17, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 30, 1983	11.15	S	MAR 28, 1984	17.27	S	JUL 18, 1984	6.52	S	SEP 17, 1984	7.20	S
JAN 18, 1984	14.21	S	MAY 29	13.73	S						

WELL 06N 39E 16DAA1   SITE NUMBER 435048111512701

DRIVEN OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 26.7 FT, CASED TO 26.7 FT, PERFORATED 24.7-26.7 FT. LSD 4,834.85 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 1 1/4-IN PIPE, 0.80 FT ABOVE LSD (SINCE NOV. 8, 1966).

RECORDS AVAILABLE 1966, 1967 - 1971, 1972 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.54 FEET BELOW LAND SURFACE DATUM AUG 10, 1976.

LOWEST WATER LEVEL 12.78 FEET BELOW LAND SURFACE DATUM MAR 30, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 30, 1983	8.71	S	MAR 28, 1984	11.60	S	JUL 18, 1984	3.37	S	SEP 17, 1984	5.69	S
JAN 18, 1984	10.53	S	MAY 29	8.39	S						

WELL 06N 39E 23AAC2   SITE NUMBER 435015111495302

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN, REPORTED DEPTH 449.5 FT, CASED TO 248 FT, GRAVEL FILL 440-465 FT, CONCRETE SEAL 240.5-257 FT, 435-440 FT. LSD 4,843.84 FT NGVD OF 1929. RECORDER INSTALLED SEPT. 15, 1969. RECORDER REMOVED AUG. 24, 1982. MP NO. 1 TOP OF 8-IN CASING SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE APR. 14, 1969).

RECORDS AVAILABLE 1969 - 1979, 1980 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 22.79 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.

LOWEST WATER LEVEL 31.99 FEET BELOW LAND SURFACE DATUM APR 15, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 30, 1983	25.45	S	MAR 28, 1984	28.34	S	JUL 18, 1984	24.22	S	SEP 17, 1984	22.79	S
JAN 18, 1984	26.97	S	MAY 29	27.03	S						

WELL 06N 39E 28BBB1 SITE NUMBER 434932111523701

DRIVEN OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1 1/4 IN, REPORTED DEPTH 26.3 FT, CASED TO 26.3 FT, PERFORATED 24.3-26.3 FT. LSD 4,828.69 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 3 TOP OF 1 1/4-IN PIPE WEST SIDE, 3.89 FT ABOVE LSD (SINCE JULY 20, 1977).

RECORDS AVAILABLE 1966, 1967 - 1971, 1972 - 1979, 1980 TO CURRENT YEAR, 1980.

HIGHEST WATER LEVEL 1.62 FEET BELOW LAND SURFACE DATUM JUN 08, 1976.

LOWEST WATER LEVEL 10.75 FEET BELOW LAND SURFACE DATUM APR 23, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	7.86	S	MAR 28, 1984	9.49	S	JUL 18, 1984	3.79	S	SEP 17, 1984	6.20	S
JAN 18, 1984	8.81	S	MAY 29	7.57	S						

WELL 06N 39E 30ACC1 SITE NUMBER 434915111540501

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 295.0 FT, CASED TO 263 FT. LSD 4,816.92 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 1-IN PIPE COUPLING IN CASING CAP, 2.00 FT ABOVE LSD (SINCE JAN. 14, 1963).

RECORDS AVAILABLE 1963 - 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.03 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.

LOWEST WATER LEVEL 7.29 FEET BELOW LAND SURFACE DATUM APR 24, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	2.72	S	MAR 27, 1984	4.85	S	JUL 18, 1984	0.96	S	SEP 17, 1984	0.03	S
JAN 13, 1984	3.77	S									

WELL 06N 39E 30ADC2 SITE NUMBER 434915111540502

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 620 FT, 3/4-IN PIEZOMETER TUBE 0-445 FT, PERFORATED 437.5-442.5 FT, GRAVEL FILL 406-620 FT, CONCRETE SEAL 385-406 FT, 620-638 FT. LSD 4,816.92 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN PIPE, 2.20 FT ABOVE LSD (SINCE JULY 25, 1967).

RECORDS AVAILABLE 1967 - 1969, 1970 - 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.32 FEET BELOW LAND SURFACE DATUM SEP 17, 1984.

LOWEST WATER LEVEL 9.55 FEET BELOW LAND SURFACE DATUM MAR 12, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	3.96	S	MAR 27, 1984	6.66	S	JUL 18, 1984	2.91	S	SEP 17, 1984	1.32	S
JAN 13, 1984	5.05	S									

WELL 06N 39E 30ADC3 SITE NUMBER 434915111540503

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 699.7 FT, 3/4-IN PIEZOMETER TUBE 0-635 FT, PERFORATED 677.5-682.5 FT, GRAVEL FILL 638-699.7 FT, CONCRETE SEAL 620-638 FT. LSD 4,816.92 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN PIPE, 2.03 FT ABOVE LSD (SINCE JULY 25, 1967).

RECORDS AVAILABLE 1967 - 1969, 1970 - 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.92 FEET BELOW LAND SURFACE DATUM JUN 24, 1976.

LOWEST WATER LEVEL 9.12 FEET BELOW LAND SURFACE DATUM MAR 02, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	3.07	S	MAR 27, 1984	5.23	S	JUL 18, 1984	3.67	S	SEP 17, 1984	1.02	S
JAN 13, 1984	3.72	S									

WELL 06N 39E 35CBB2 SITE NUMBER 434816111501302

DRIVEN OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1 1/4 IN, REPORTED DEPTH 27.1 FT, CASED TO 27.1 FT, PERFORATED 25.1-27.1 FT. LSD 4,840.57 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 1 1/4-IN PIPE COLLAR, 0.70 FT ABOVE LSD (SINCE NOV. 8, 1966).

RECORDS AVAILABLE 1966 - 1971, 1972 - 1976, 1977, 1978, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.90 FEET BELOW LAND SURFACE DATUM JUN 08, 1976.

LOWEST WATER LEVEL 12.41 FEET BELOW LAND SURFACE DATUM MAY 13, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	5.95	S	MAR 28, 1984	7.84	S	JUL 18, 1984	2.94	S	SEP 17, 1984	4.09	S
JAN 18, 1984	7.45	S	MAY 29	7.55	S						

WELL 06N 40E 09BBB2 SITE NUMBER 435205111452301

BORED OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE, DIAM 1 1/4 IN, REPORTED DEPTH 25 FT, CASED 0-23 FT, WELL POINT 23.0-25.0 FT. LSD 4,886.80 FT NGVD OF 1929. MP NO. 1 TOP OF 1 1/4-IN CASING, 0.70 FT ABOVE LSD (SINCE JULY 21, 1977).

RECORDS AVAILABLE 1977 - 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.99 FEET BELOW LAND SURFACE DATUM JUL 25, 1983.

LOWEST WATER LEVEL 22.53 FEET BELOW LAND SURFACE DATUM APR 18, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	9.20	S	MAR 28, 1984	17.38	S	JUL 18, 1984	5.08	S	SEP 20, 1984	5.59	S
JAN 18, 1984	13.41	S	MAY 29	15.33	S						

WELL 06N 41E 02BDC1 SITE NUMBER 435237111352701

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 IN, REPORTED DEPTH 350 FT, CASED TO 60 FT. LSD 5,131.80 FT NGVD OF 1929. MP NO. 3 TOP OF 5/8-IN HOLE INSIDE PUMPBASE SOUTHWEST SIDE, 1.08 FT ABOVE LSD (SINCE SEPT. 13, 1977).

RECORDS AVAILABLE 1959, 1967 - 1970, 1971 - 1977, 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 260.87 FEET BELOW LAND SURFACE DATUM SEP 20, 1984.

LOWEST WATER LEVEL 279.48 FEET BELOW LAND SURFACE DATUM SEP 17, 1973.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 26, 1984	266.47	V	SEP 20, 1984	260.87	S

WELL 06N 41E 11CDB1 SITE NUMBER 435128111353401

DRILLED IRRIGATION WATER-TABLE WELL IN WELDED TUFF AND ASH OF QUATERNARY AGE, DIAM 18 IN, REPORTED DEPTH 568 FT, CASING DEPTH NOT AVAILABLE. LSD 5,216.08 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MAR. 9, 1972, WELL HAD FILLED IN TO A DEPTH OF 439.3 FT. RECORDER INSTALLED SEPT. 8, 1971. RECORDER REMOVED JUNE 26, 1980. MP NO. 1 TOP OF 18-IN CASING WEST SIDE, 0.04 FT ABOVE LSD (SINCE APR. 20, 1971).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 263.71 FEET BELOW LAND SURFACE DATUM MAY 12, 1978.

LOWEST WATER LEVEL 362.37 FEET BELOW LAND SURFACE DATUM JUL 14, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	348.99	V	MAR 26, 1984	352.08	V	JUL 19, 1984	352.49	V	SEP 20, 1984	347.59	V
JAN 16, 1984	350.33	V	MAY 29	355.96	V						

WELL 05N 39E 08DAD1 SITE NUMBER 434638111530401

DRIVEN OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 27.5 FT, CASED TO 27.5 FT, WELL POINT 25.5-27.5 FT. LSD 4,830.36 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF COLLAR, 0.70 FT ABOVE LSD (SINCE NOV. 3, 1966).

RECORDS AVAILABLE 1966, 1967 - 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.80 FEET BELOW LAND SURFACE DATUM JUL 18, 1984.

LOWEST WATER LEVEL 8.22 FEET BELOW LAND SURFACE DATUM JAN 06, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	6.84	S	MAR 28, 1984	6.50	S	JUL 18, 1984	0.80	S	SEP 17, 1984	5.41	S
JAN 18, 1984	7.38	S	MAY 30	6.45	S						

WELL 05N 40E 01CCD01 SITE NUMBER 434712111415601

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, REPORTED DEPTH 716 FT, CASED TO 104 FT. LSD ABOUT 5,305 FT NGVD OF 1929. AUG. 24, 1972, WELL HAD FILLED IN TO A DEPTH OF 508.6 FT. MP NO. 2 TOP OF HOLE IN 55-GAL DRUM SOUTH SIDE, 1.20 FT ABOVE LSD (SINCE MAY 1, 1973).

RECORDS AVAILABLE 1970, 1971 - 1977, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 439.29 FEET BELOW LAND SURFACE DATUM MAY 18, 1982.

LOWEST WATER LEVEL 449.76 FEET BELOW LAND SURFACE DATUM SEP 27, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	443.03	S	MAR 07, 1984	441.95	S	JUL 19, 1984	443.55	S	SEP 20, 1984	442.07	S
JAN 16, 1984	442.27	S	MAY 29	441.19	S						

WELL 04S 24E 06BBC1 SITE NUMBER 430626113391001

FORMERLY SITE ID NO. 430623113390801. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 445.1 FT, CASED TO 444 FT, PERFORATED 420-444 FT. LSD 4,493.44 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED AUG. 20, 1957. MP NO. 1 TOP OF 6-IN CASING NORTHEAST SIDE, 1.50 FT ABOVE LSD (SINCE AUG. 1, 1957).

RECORDS AVAILABLE 1957 TO CURRENT YEAR.

HIGHEST WATER LEVEL 410.95 FEET BELOW LAND SURFACE DATUM APR 03, 1958.

LOWEST WATER LEVEL 424.60 FEET BELOW LAND SURFACE DATUM SEP 23, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	422.52	DEC 05, 1983	421.31		MAY 20, 1984	419.22	JUL 25, 1984	419.57
10	422.47	10	421.39		25	419.24	30	419.65
11	422.54	15	421.36		31	419.21	AUG 08	419.77
12	422.54	20	421.36		JUN 05	419.07	10	419.72
15	422.39	25	421.17		10	419.11	15	419.78
20	422.37	31	421.21		15	419.19	20	419.81
25	422.43	JAN 05, 1984	421.25		20	419.16	25	419.82
31	422.14	10	421.08		25	419.24	31	419.83
NOV 05	422.02	14	421.05		30	419.27	SEP 05	419.89
10	421.99	APR 27	419.59	S	JUL 05	419.28	10	419.81
15	421.90	30	419.56		10	419.37	15	419.88
20	421.76	MAY 05	419.39		13	419.33	20	419.82
25	421.63	10	419.37		15	419.45	25	419.92
30	421.52	15	419.25		20	419.45	30	419.79

WELL 05S 25E 22DAD1 SITE NUMBER 425612113271201

FORMERLY SITE ID NO. 425812113271401. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, DEPTH 581.3 FT, CASED TO 581.3 FT, PERFORATED 525-533 FT, 555-560 FT, 575-578 FT. LSD 4,583.37 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 3 TOP OF 2-IN PIPE NIPPLE NORTHEAST SIDE, 2.34 FT ABOVE LSD (SINCE MAY 4, 1972).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 491.46 FEET BELOW LAND SURFACE DATUM APR 27, 1973.

LOWEST WATER LEVEL 502.77 FEET BELOW LAND SURFACE DATUM SEP 16, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 06, 1983	501.26	S	JUN 01, 1984	498.02	S	JUL 13, 1984	498.19	S	SEP 12, 1984	498.94	S
APR 27, 1984	498.28	S									

WELL 07S 24E 02ADD1 SITE NUMBER 425040113363101

FORMERLY SITE ID NO. 425037113363201. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 5 IN, DEPTH 252.0 FT, CASED TO 252 FT, PERFORATED 222-252 FT. LSD 4,285.88 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MEASUREMENTS PRIOR TO MAR. 21, 1972, MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED NOV. 3, 1953. RECORDER REMOVED AUG. 9, 1972. MP NO. 2 TOP OF 3/4-IN HOLE IN CASING COVER, 0.92 FT ABOVE LSD (SINCE JULY 23, 1975).

RECORDS AVAILABLE 1953 - 1972, 1973 - 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 200.95 FEET BELOW LAND SURFACE DATUM JAN 17, 1954.

LOWEST WATER LEVEL 225.00 FEET BELOW LAND SURFACE DATUM NOV 17, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 13, 1984	218.47	S	SEP 13, 1984	217.35	S

MINIDOKA COUNTY--CONTINUED

WELL 07S 25E 19BAA1 SITE NUMBER 424828113345201

FORMERLY SITE ID NO. 424824113345801. WELL NO. 07S 25E 19BAB1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 5 1/2 IN, REPORTED DEPTH 284 FT, 8-IN CASING 0-8 FT, 5 1/2-IN CASING 0-284 FT, PERFORATED 234-284 FT. LSD 4,320.43 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. JULY 14, 1981, WELL HAD FILLED IN TO A DEPTH OF 253.9 FT. RECORDER INSTALLED NOV. 3, 1953. MP NO. 1 TOP OF 5 1/2-IN CASING NORTH SIDE, 0.60 FT ABOVE LSD (SINCE OCT. 29, 1953).

RECORDS AVAILABLE 1953 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 231.76 FEET BELOW LAND SURFACE DATUM NOV 05, 1953.

LOWEST WATER LEVEL WELL DRY JUL 14, 1981; JUL 15, 1981; JUL 20, 1981; JUL 25, 1981; JUL 31, 1981; AUG 05, 1981; AUG 07, 1981; SEP 05, 1981; SEP 10, 1981; SEP 15, 1981; SEP 19, 1981; JUL 13, 1982; JUL 15, 1982; JUL 20, 1982; JUL 25, 1982; JUL 31, 1982; AUG 05, 1982; AUG 10, 1982; AUG 12, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL
OCT 06, 1983	249.89	S	JAN 05, 1984	247.10		APR 05, 1984	245.33		JUL 10, 1984	248.68
10	249.67		10	247.96		08	245.23		15	249.05
15	249.36		15	247.83		10	245.23		20	249.30
20	249.04		20	247.78		15	245.30		25	249.31
25	248.92		22	246.69		20	245.19		31	249.08
31	248.53		25	246.73		24	244.91		AUG 05	248.83
NOV 05	248.37		31	246.74		25	245.03		10	248.64
10	248.13		FEB 05	246.71		30	245.10		15	248.52
15	248.07		10	246.56		MAY 05	245.09		20	248.39
20	247.63		15	246.50		10	245.17		25	248.34
24	247.49		20	246.46		15	245.40		31	248.27
25	247.55		21	246.29		20	245.64		SEP 05	248.22
30	247.51		27	246.51	S	25	245.97		10	248.08
DEC 05	247.44		29	246.35		31	246.33		15	248.11
10	247.34		MAR 05	246.33		JUN 05	246.62		20	247.84
15	247.24		10	246.24		10	246.68		25	247.67
19	247.07		15	246.08		20	247.00		30	247.48
20	247.12		20	245.94		25	247.55			
25	247.06		25	245.64		30	247.99			
31	247.21		31	245.41		JUL 05	248.31			

WELL 08S 23E 27DC1 SITE NUMBER 424201113452701

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, REPORTED DEPTH 260 FT, CASED TO 21 FT. LSD 4,234.52 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER MEASUREMENTS FROM JUNE 10, 1949, THROUGH DEC. 20, 1949, MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED MAY 20, 1949. RECORDER REMOVED DEC. 20, 1949. MP NO. 3 LOWER LIP OF 1-IN PIPE NORTH SIDE OF PUMP, 0.54 FT ABOVE LSD (SINCE MAR. 27, 1963).

RECORDS AVAILABLE 1948, 1949, 1950 - 1954, 1955 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 176.75 FEET BELOW LAND SURFACE DATUM DEC 01, 1953.

LOWEST WATER LEVEL 193.95 FEET BELOW LAND SURFACE DATUM SEP 08, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 13, 1984	188.45	V	SEP 13, 1984	193.30	P S

WELL 08S 24E 31DAC1 SITE NUMBER 424C53113412801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, REPORTED DEPTH 194 FT, 8-IN CASING 0-85 FT, 6-IN CASING 85-188 FT, PERFORATED 156-188 FT. LSD 4,226.54 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED SEPT. 20, 1950. RECORDER MAINTAINED, AND ITS RECORD FURNISHED BY U.S. BUREAU OF RECLAMATION. PERIODIC MEASUREMENTS MADE BY U.S. GEOLOGICAL SURVEY. MP NO. 1 TOP OF 8-IN CASING, 1.80 FT ABOVE LSD (SINCE SEPT. 6, 1950).

RECORDS AVAILABLE 1950 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 140.50 FEET BELOW LAND SURFACE DATUM OCT 18, 1953.

LOWEST WATER LEVEL 162.37 FEET BELOW LAND SURFACE DATUM JUL 24, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 10, 1983	157.35		DEC 15, 1983	155.58		MAR 25, 1984	153.67		JUN 20, 1984	156.71	
15	156.87		JAN 04, 1984	155.77	S	26	153.45		JUL 19	159.07	S
20	156.58		23	155.64	S	31	153.91		20	158.97	
25	156.55		25	155.54		APR 05	154.20		AUG 14	157.36	S
31	156.12		31	155.59		10	154.21		15	157.30	
NOV 05	156.02		FEB 05	155.62		25	154.23		20	157.23	
10	155.93		10	155.47		30	154.47		25	157.15	
15	155.94		15	155.34		MAY 05	154.54		SEP 13	156.60	S
20	155.46		20	155.56		10	154.84		15	156.43	
24	155.40		27	155.68	S	22	155.52	S	20	156.09	
25	155.48		29	155.47		25	155.59		25	156.06	
30	155.55		MAR 05	155.51		31	156.13		30	155.88	
DEC 03	155.25		10	155.46		JUN 05	156.40				
05	155.60		15	155.02		10	156.31				
10	155.61		20	154.16	S	19	156.68	S			

WELL 08S 25E 16DAC1 SITE NUMBER 424336113320201

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, REPORTED DEPTH 230 FT, CASING DEPTH NOT AVAILABLE. LSD 4,243.40 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 3 TOP OF 1-IN HOLE INSIDE PUMPBASE NORTH SIDE, 1.62 FT ABOVE LSD (SINCE MAY 25, 1977).

RECORDS AVAILABLE 1949 - 1955, 1956 TO CURRENT YEAR.

HIGHEST WATER LEVEL 148.37 FEET BELOW LAND SURFACE DATUM DEC 01, 1953.

LOWEST WATER LEVEL 167.88 FEET BELOW LAND SURFACE DATUM APR 12, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 13, 1984	163.79	S	SEP 13, 1984	164.30	S

WELL 09S 25E 36DAA1 SITE NUMBER 424102113282101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12 TO 10 IN, REPORTED DEPTH 207 FT, 12-IN CASING 0-56 FT, 10-IN CASING 0-111 FT, PERFORATED, INTERVAL NOT AVAILABLE. LSD 4,209.00 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MEASUREMENTS PRIOR TO MAR. 21, 1972, MADE BY U.S. BUREAU OF RECLAMATION. RECORDER INSTALLED APR. 14, 1952. RECORDER REMOVED SEPT. 12, 1962. MP NO. 2 TOP OF 10-IN CASING, 0.63 FT ABOVE LSD (SINCE MAR. 12, 1952).

RECORDS AVAILABLE 1951, 1952 - 1962, 1963 - 1972, 1973 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 97.04 FEET BELOW LAND SURFACE DATUM SEP 10, 1952.

LOWEST WATER LEVEL 114.26 FEET BELOW LAND SURFACE DATUM MAR 25, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 06, 1983	112.18	S	FEB 22, 1984	112.22	S	MAY 31, 1984	111.11	S	AUG 14, 1984	111.07	S
DEC 21	111.74	S	MAR 13	112.28	S	JUN 19	111.34	S	SEP 11	110.49	S
JAN 20, 1984	112.00	S	APR 12	111.77	S	JUL 11	111.11	S			

WELL 09S 22E 16CDB1 SITE NUMBER 423517113530201

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 21 IN, DEPTH 297.0 FT, CASED TO 16 FT. LSD ABOUT 4,201 FT NGVD OF 1929. MAY 17, 1961, WELL WAS DEEPENED TO A REPORTED DEPTH OF 380 FT, DIAM 20 IN, CASED TO 20 FT. APR. 25, 1966, WELL WAS REAMED AND DEEPENED TO A REPORTED DEPTH OF 495 FT, 10-IN CASING 322-384 FT. 10-IN BORE 384-473 FT, 8-IN BORE 473-495 FT. MP NO. 2 TOP OF 1-IN TAP HOLE INSIDE PUMPBASE EAST SIDE, 0.70 FT ABOVE LSD (SINCE MAY 18, 1966).

RECORDS AVAILABLE 1952 - 1953, 1954 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 235.52 FEET BELOW LAND SURFACE DATUM MAR 23, 1954.

LOWEST WATER LEVEL 261.80 FEET BELOW LAND SURFACE DATUM SEP 24, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 14, 1984	250.78 S	SEP 13, 1984	259.05 P S

WELL 09S 22E 33ADA1 SITE NUMBER 423604113522401

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12 IN, DEPTH 252.5 FT, CASED TO 90 FT. LSD 4,190.42 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED JAN. 10, 1950. RECORDER REMOVED OCT. 16, 1950. MP NO. 5 TOP OF HOLE IN WELL SEAL NORTH SIDE, 2.80 FT ABOVE LSD (SINCE SEPT. 16, 1965).

RECORDS AVAILABLE 1946 - 1949, 1950, 1951 - 1954, 1955 TO CURRENT YEAR.

HIGHEST WATER LEVEL 226.07 FEET BELOW LAND SURFACE DATUM MAR 23, 1954.

LOWEST WATER LEVEL 241.18 FEET BELOW LAND SURFACE DATUM SEP 09, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 14, 1984	238.05 S	SEP 13, 1984	239.63 S

WELL 09S 25E 03CAC1 SITE NUMBER 424003113313101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, REPORTED DEPTH 300 FT, CASED TO 100 FT. LSD 4,206.45 FT NGVD OF 1929. RECORDER INSTALLED SEPT. 18, 1980. MP NO. 1 TOP OF 6-IN CASING NORTH SIDE, 1.40 FT ABOVE LSD (SINCE SEPT. 27, 1976).

RECORDS AVAILABLE 1976, 1977 - 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 40.94 FEET BELOW LAND SURFACE DATUM JUL 26, 1977.

LOWEST WATER LEVEL 50.51 FEET BELOW LAND SURFACE DATUM MAR 15, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	46.22	FEB 10, 1984	48.69	APR 25, 1984	47.93	JUL 15, 1984	47.04
10	46.50	15	48.93	30	47.71	20	46.70
15	46.33	20	49.17	MAY 05	47.47	25	46.50
20	46.40	25	49.13	10	47.57	31	46.25
25	46.64	29	49.28	15	47.48	AUG 05	46.11
28	44.03	MAR 05	49.45	20	47.45	10	46.22
31	45.40	09	49.50	25	47.45	15	46.13
NOV 05	45.69	10	49.50	31	47.42	17	46.09
10	45.82	15	49.21	JUN 05	47.11	SEP 11	45.20 S
15	46.00	20	49.13	10	46.79	15	45.27
20	45.88	25	48.87	15	46.72	20	45.28
25	46.16	31	48.52	20	46.66	22	45.28
JAN 20, 1984	47.96 S	APR 05	48.42	25	46.68	30	45.60
25	47.93 -	10	48.32	30	46.37		
31	48.36	15	48.46	JUL 05	46.82		
FEB 05	48.62	20	45.29	10	47.03		

NEZ PERCE COUNTY

WELL 35N 05W 16DAC1 SITE NUMBER 462225116575101

DRILLED UNUSED WATER-TABLE WELL IN COLUMBIA RIVER GROUP, DIAM 8 IN, REPORTED DEPTH 383 FT, CASED TO 136 FT. LSD ABOUT 1,500 FT NGVD OF 1929. MP NO. 2 TOP OF 1 1/2-IN PIPE COUPLING, 0.45 FT ABOVE LSD (SINCE AUG. 16, 1979).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 13.05 FEET BELOW LAND SURFACE DATUM SEP 13, 1970.

LOWEST WATER LEVEL 41.37 FEET BELOW LAND SURFACE DATUM DEC 14, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 26, 1983	32.19	S	JAN 19, 1984	38.25	S	MAY 02, 1984	34.92	S	SEP 25, 1984	28.56	S
NOV 18	32.17	S	FEB 16	38.03	S	24	31.59	S			
DEC 16	32.29	S	MAR 23	33.24	S	SEP 01	31.60	S			

ONEIDA COUNTY

WELL 13S 33E 04ADD1 SITE NUMBER 421915112354601

FORMERLY SITE ID NO. 421917112354901. DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 4 IN, DEPTH 145.8 FT, CASED TO 122 FT. LSD ABOUT 5,153 FT NGVD OF 1929. MP NO. 1 TOP OF 4-IN CASING SOUTH SIDE, 0.70 FT ABOVE LSD (SINCE MAY 5, 1947).

RECORDS AVAILABLE 1947, 1969 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 46.44 FEET BELOW LAND SURFACE DATUM SEP 06, 1984.

LOWEST WATER LEVEL 81.60 FEET BELOW LAND SURFACE DATUM MAY 05, 1947.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 28, 1984	56.12	S	SEP 06, 1984	46.44	S

WELL 13S 35E 36CCD1 SITE NUMBER 421434112191401

DRILLED UNUSED WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 4 IN, DEPTH 131 FT, CASED TO 131 FT. LSD ABOUT 4,853 FT NGVD OF 1929. MP NO. 1 TOP OF CASING, 0.80 FT ABOVE LSD (SINCE OCT. 25, 1946).

RECORDS AVAILABLE 1946 - 1959, 1962 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 75.38 FEET BELOW LAND SURFACE DATUM SEP 05, 1984.

LOWEST WATER LEVEL 85.33 FEET BELOW LAND SURFACE DATUM APR 21, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 28, 1984	77.55	S	SEP 05, 1984	75.38	S

WELL 14S 35E 13DBA1 SITE NUMBER 421219112184101

DRILLED IRRIGATION ARTESIAN WELL IN OLDER TERRACE GRAVEL, DIAM 14 IN, REPORTED DEPTH 289 FT, CASED TO 289 FT, PERFORATED OPPOSITE ALL GRAVELS 114-289 FT. LSD ABOUT 4,641 FT NGVD OF 1929. MP NO. 1 TOP OF 1/2-IN HOLE IN PUMPBASE WEST SIDE, 0.80 FT ABOVE LSD (SINCE MAR. 11, 1976).

RECORDS AVAILABLE 1943 - 1952, 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL 63.45 FEET BELOW LAND SURFACE DATUM SEP 05, 1984.

LOWEST WATER LEVEL 100.10 FEET BELOW LAND SURFACE DATUM NOV 11, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 28, 1984	64.92	V	SEP 05, 1984	63.45	S

WELL 15S 32E 09AAA2 SITE NUMBER 420819112425102

FORMERLY SITE ID NO. 420819112425402. DRILLED STOCK WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 10 IN, REPORTED DEPTH 270 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 5,040 FT NGVD OF 1929. MP NO. 1 TOP OF STEEL PLATE OVER 10-IN CASING, 0.70 FT ABOVE LSD (SINCE APR. 7, 1970).

RECORDS AVAILABLE 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 211.43 FEET BELOW LAND SURFACE DATUM APR 07, 1970.

LOWEST WATER LEVEL 216.57 FEET BELOW LAND SURFACE DATUM MAY 30, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAY 30, 1984	216.57	T	SEP 06, 1984	215.14	S

WELL 15S 35E 01DAA1 SITE NUMBER 420855112182301

DRILLED IRRIGATION ARTESIAN WELL IN OLDER TERRACE GRAVEL, DIAM 3 IN, DEPTH 275 FT, CASED TO 249 FT. LSD 4,452.95 FT NGVD OF 1929. REPORTED FLOWING JULY 25, 1931. MP NO. 2 TOP OF 3-IN HORIZONTAL PIPE, 2.90 FT ABOVE LSD (SINCE SEPT. 23, 1981)

RECORDS AVAILABLE 1931, 1943 - 1976, 1977 - 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 33.10 FEET ABOVE LAND SURFACE DATUM MAY 03, 1944.

LOWEST WATER LEVEL 8.46 FEET BELOW LAND SURFACE DATUM SEP 14, 1962.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 28, 1984	26.14 E M	SEP 05, 1984	22.61 E M

WELL 15S 35E 22AAB1 SITE NUMBER 420636112175201

DRILLED IRRIGATION WATER-TABLE WELL IN OLDER TERRACE GRAVEL, DIAM 10 IN, REPORTED DEPTH 229 FT, CASED TO 229 FT. LSD ABOUT 4,575 FT NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN HOLE IN PUMPBASE SOUTHWEST SIDE, 0.90 FT ABOVE LSD (SINCE JUNE 15, 1963).

RECORDS AVAILABLE 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 125.69 FEET BELOW LAND SURFACE DATUM SEP 20, 1975.

LOWEST WATER LEVEL 142.00 FEET BELOW LAND SURFACE DATUM SEP 15, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 28, 1984	129.35 S	SEP 05, 1984	126.38 S

WELL 15S 36E 22ABA1 SITE NUMBER 420638112140301

DRILLED IRRIGATION ARTESIAN WELL IN OLDER TERRACE GRAVEL, DIAM 8 IN, DEPTH 100 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 4,419 FT NGVD OF 1929. MP NO. 1 TOP OF CASING COUPLING, 1.00 FT ABOVE LSD (SINCE SEPT. 15, 1963).

RECORDS AVAILABLE 1943 - 1952, 1953 - 1960, 1964 TO CURRENT YEAR.

HIGHEST WATER LEVEL 34.71 FEET ABOVE LAND SURFACE DATUM SEP 20, 1983.

LOWEST WATER LEVEL 12.03 FEET ABOVE LAND SURFACE DATUM SEP 15, 1963.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 28, 1984	28.23 E M	SEP 05, 1984	30.31 E M

WELL 16S 30E 09ABB2 SITE NUMBER 420323112571202

DRILLED STOCK WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 10 TO 8 IN, REPORTED DEPTH 485 FT, 10-IN CASING 0-212 FT, 8-IN CASING 200-485 FT, PERFORATED 200-485 FT. LSD ABOUT 4,658 FT NGVD OF 1929. MP NO. 2 TOP OF 10-IN CASING NORTHWEST SIDE, 1.20 FT ABOVE LSD (SINCE SEPT. 21, 1970).

RECORDS AVAILABLE 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 56.65 FEET BELOW LAND SURFACE DATUM SEP 06, 1984.

LOWEST WATER LEVEL 78.46 FEET BELOW LAND SURFACE DATUM JUN 19, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 28, 1984	58.20 S	SEP 06, 1984	56.65 S

WELL 16S 32E 27DAB1 SITE NUMBER 420027112415201

FORMERLY SITE ID NO. 420027112414201. DRILLED IRRIGATION WATER-TABLE WELL IN VALLEY FILL OF CENOZOIC AGE, DIAM 16 IN, REPORTED DEPTH 330 FT, CASED TO 214 FT, PERFORATED 30-214 FT. MP NO. 1 BOTTOM OF 1/4-IN HOLE OUTSIDE PUMPBASE NORTH SIDE, 1.00 FT ABOVE LSD (SINCE APR. 13, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.55 FEET BELOW LAND SURFACE DATUM SEP 27, 1973.

LOWEST WATER LEVEL 37.11 FEET BELOW LAND SURFACE DATUM SEP 12, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 28, 1984	17.78	S	SEP 06, 1984	21.63	S

WELL 03N 04W 30AAB1 SITE NUMBER 433423116511401

DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 12 IN, REPORTED DEPTH 200 FT, CASED TO 135 FT, PERFORATED 63-71 FT. LSD ABOUT 2,305 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE IN PUMPBASE, 1.00 FT ABOVE LSD (SINCE SEPT. 16, 1977).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 53.04 FEET BELOW LAND SURFACE DATUM JAN 03, 1967.

LOWEST WATER LEVEL 57.87 FEET BELOW LAND SURFACE DATUM SEP 24, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 29, 1984	56.53 S	SEP 25, 1984	57.37 S

WELL 01S 03W 01BBC1 SITE NUMBER 432208116385701

FORMERLY WELL NO. 01S 03W 01BCB1. DRILLED IRRIGATION ARTESIAN WELL IN UNKNOWN AQUIFER, DIAM 3 IN, REPORTED DEPTH 1,800 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,290 FT NGVD OF 1929. MP NO. 1 TOP OF 2 1/2-IN HORIZONTAL PIPE, 2.50 FT ABOVE LSD (SINCE MAY 5, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.62 FEET ABOVE LAND SURFACE DATUM NOV 25, 1970.

LOWEST WATER LEVEL 5.23 FEET ABOVE LAND SURFACE DATUM MAR 29, 1984.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 25, 1983	6.90 E M	MAR 29, 1984	5.23 E M	JUL 18, 1984	7.35 E M	SEP 25, 1984	7.06 E M
JAN 25, 1984	5.60 E S	MAY 29	7.80 E M				

WELL 04S 01E 30BBB1 SITE NUMBER 430310116233601

FORMERLY SITE ID NO. 430312116233701. DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 10 IN, REPORTED DEPTH 320 FT, CASED TO 32 FT. LSD ABOUT 2,803 FT NGVD OF 1929. MP NO. 3 BOTTOM OF HOLE IN CASING, 0.13 FT ABOVE LSD (SINCE MAR. 21, 1973).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 31.21 FEET BELOW LAND SURFACE DATUM MAR 12, 1970.

LOWEST WATER LEVEL 59.79 FEET BELOW LAND SURFACE DATUM MAY 19, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 28, 1984	36.79 S

WELL 05S 01E 20DAD1 SITE NUMBER 425816116211701

FORMERLY SITE ID NO. 425807116211501, WELL NO. 05S 01E 20DDD1. DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 10 IN, REPORTED DEPTH 666 FT, CASED TO 74 FT. LSD ABOUT 2,799 FT NGVD OF 1929. MP NO. 1 HOLE IN EAST SIDE OF CASING, 1.50 FT ABOVE LSD (SINCE MAY 13, 1971).

RECORDS AVAILABLE 1967 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.70 FEET BELOW LAND SURFACE DATUM MAR 17, 1974.

LOWEST WATER LEVEL 58.20 FEET BELOW LAND SURFACE DATUM SEP 12, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 28, 1984	26.51 V S	SEP 25, 1984	33.48 V S

WELL 06S 03E 14BCB1 SITE NUMBER 425414116043301

DRILLED UNUSED ARTESIAN WELL IN IDAHO GROUP, DIAM 4 IN, REPORTED DEPTH 1,342 FT, CASED TO 373 FT. LSD ABOUT 2,643 FT NGVD OF 1929. RECORDER INSTALLED MAY 26, 1967. RECORDER REMOVED NOV. 16, 1971. RECORDER INSTALLED JULY 7, 1977. MP NO. 4 TOP OF 4-IN CASING SOUTH SIDE, 0.10 FT BELOW LSD (SINCE JULY 14, 1971).

RECORDS AVAILABLE 1953 - 1966, 1967 - 1971, 1972 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 4.90 FEET ABOVE LAND SURFACE DATUM APR 28, 1958.

LOWEST WATER LEVEL 64.97 FEET BELOW LAND SURFACE DATUM OCT 07, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL
OCT 05, 1983	50.08	DEC 20, 1983	42.65	MAR 28, 1984	32.22	S	JUL 20, 1984	39.20
10	50.30	25	41.98	29	32.06		25	40.05
15	50.40	31	41.18	31	31.85	E	31	41.02
20	50.44	JAN 05, 1984	40.65	APR 05	31.48	E	AUG 05	41.76
23	50.44	10	40.06	10	31.02		10	42.44
25	50.42	15	39.33	15	30.59		15	43.31
31	49.64	20	38.69	20	30.26		20	43.94
NOV 05	49.05	25	38.05	25	30.09		25	44.42
10	48.40	31	37.42	30	30.12		31	45.21
15	47.76	FEB 05	36.94	MAY 05	30.21		SEP 05	45.74
20	46.95	10	36.31	08	30.05		10	46.36
25	46.28	15	35.87	24	32.00	S	15	46.74
30	45.59	20	35.41	25	32.13		20	47.07
DEC 05	44.51	25	34.88	31	33.02		25	47.38
10	44.03	29	34.54	JUN 04	33.62		30	47.64
15	43.36	MAR 05	34.13	JUL 17	35.75	S		

WELL 06S 04E 14ABC1 SITE NUMBER 425425115563801

DRILLED IRRIGATION ARTESIAN WELL IN IDAVADA VOLCANICS, DIAM 15 IN, REPORTED DEPTH 1,905 FT, CASED TO 1,600 FT. LSD ABOUT 2,665 FT NGVD OF 1929. MP NO. 4 BOTTOM EDGE OF 9/16-IN HOLE IN SOUTH SIDE OF CASING, 2.61 FT BELOW LSD (SINCE MAY 11, 1982).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 6.09 FEET BELOW LAND SURFACE DATUM APR 26, 1967.

LOWEST WATER LEVEL 86.35 FEET BELOW LAND SURFACE DATUM SEP 13, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 28, 1984	27.04 V S	SEP 25, 1984	94.85 P S

WELL 06S 05E 24BCA1 SITE NUMBER 425323115484301

DRILLED DOMESTIC ARTESIAN WELL IN BANBURY FORMATION, DIAM 6 TO 4 IN, REPORTED DEPTH 1,095 FT, 6-IN CASING 0-23 FT, 4-IN CASING 23-76 FT. LSD ABOUT 2,525 FT NGVD OF 1929. MP NO. 2 TOP OF CHROME VALVE, 1.00 FT ABOVE LSD (SINCE OCT. 24, 1958).

RECORDS AVAILABLE 1953 - 1977, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 57.39 FEET ABOVE LAND SURFACE DATUM SEP 28, 1968.

LOWEST WATER LEVEL 1.78 FEET ABOVE LAND SURFACE DATUM MAR 15, 1975.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 28, 1984	46.13 E M	SEP 21, 1984	47.86 E M

WELL 06S 05E 33DBB1 SITE NUMBER 425127115515501

DRILLED DOMESTIC WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 6 IN, REPORTED DEPTH 142 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,540 FT NGVD OF 1929. MP NO. 3 TOP OF 6-IN CASING, 0.65 FT ABOVE LSD (SINCE SEPT. 16, 1981).

RECORDS AVAILABLE 1953, 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.78 FEET BELOW LAND SURFACE DATUM FEB 08, 1967.

LOWEST WATER LEVEL 32.44 FEET BELOW LAND SURFACE DATUM SEP 21, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
SEP 21, 1984	32.44 S

WELL 07S 06E 09BAD2 SITE NUMBER 425004115645302

DRILLED IRRIGATION AND DOMESTIC WELL IN BANBURY FORMATION, DIAM 8 IN, REPORTED DEPTH 960 FT, CASED TO 80 FT. LSD ABOUT 2,578 FT NGVD OF 1929. MP NO. 1 TOP OF 10-IN ELBOW, 1.50 FT ABOVE LSD (SINCE JULY 28, 1953).

RECORDS AVAILABLE 1953 - 1967, 1968 TO CURRENT YEAR.

HIGHEST WATER LEVEL 59.30 FEET ABOVE LAND SURFACE DATUM FEB 24, 1954.

LOWEST WATER LEVEL 3.43 FEET ABOVE LAND SURFACE DATUM SEP 16, 1981.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 28, 1984	45.72 E M	SEP 21, 1984	16.06 E M

WELL 08S 11E 33BCD1 SITE NUMBER 424121115103601

FORMERLY SITE ID NO. 424119115105601, WELL NO. 08S 11E 33CBA1. DRILLED STOCK WATER-TABLE WELL IN IDAHO GROUP, DIAM 6 IN, REPORTED DEPTH 290 FT, CASED TO 290 FT, PERFORATED 250-285 FT. LSD ABOUT 3,168 FT NGVD OF 1929. MP NO. 1 TOP OF HOLE IN CASING COVER, 1.30 FT ABOVE LSD (SINCE FEB. 9, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 167.21 FEET BELOW LAND SURFACE DATUM APR 04, 1983.

LOWEST WATER LEVEL 171.69 FEET BELOW LAND SURFACE DATUM FEB 09, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	
MAR 19, 1984	167.05	S

WELL 09S 12E 28CBB1 SITE NUMBER 423651115034101

DRILLED IRRIGATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 20 TO 12 IN, REPORTED DEPTH 783 FT, 20-IN CASING 0-40 FT, 12-IN CASING 250-372 FT. LSD IS ABOUT 3,651 FT NGVD OF 1929. MP NO. 2 TOP OF 20-IN CASING SOUTH SIDE FLUSH WITH CONCRETE PLATFORM, 0.45 FT ABOVE LSD (SINCE SEPT. 12, 1983).

RECORDS AVAILABLE 1982, 1983 - 1984.

HIGHEST WATER LEVEL 278.47 FEET BELOW LAND SURFACE DATUM MAR 11, 1982.

LOWEST WATER LEVEL 317.84 FEET BELOW LAND SURFACE DATUM SEP 12, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	288.95	S	FEB 08, 1984	281.93	S	SEP 30, 1984		N

WELL 08N 05W 03BAD1 SITE NUMBER 440402116552801

DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN, DEPTH 25.5 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,156 FT NGVD OF 1929. MP NO. 1 TOP OF 12-IN CASING NORTH SIDE, 0.20 FT ABOVE LSD (SINCE MAR. 8, 1967).

RECORDS AVAILABLE 1967 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.33 FEET BELOW LAND SURFACE DATUM JUL 23, 1968.

LOWEST WATER LEVEL 9.75 FEET BELOW LAND SURFACE DATUM MAY 21, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 21, 1983	7.14	S	MAR 27, 1984	7.40	S	JUL 19, 1984	11.99	P S	SEP 25, 1984	6.20	S
JAN 23, 1984	7.71	S	MAY 21	7.60	S						

WELL 08N 04W 33ACA1 SITE NUMBER 435933116485901

DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN, DEPTH 28.5 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,211 FT NGVD OF 1929. RECORDER INSTALLED MAY 17, 1967. RECORDER CHANGED TO DIGITAL MAR. 25, 1975. RECORDER REMOVED JULY 26, 1983. MP NO. 1 TOP OF 6-IN CASING EAST SIDE, 0.50 FT ABOVE LSD (SINCE MAY 11, 1967).

RECORDS AVAILABLE 1967 - 1983, 1984 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.51 FEET BELOW LAND SURFACE DATUM JUL 18, 1971.

LOWEST WATER LEVEL 10.51 FEET BELOW LAND SURFACE DATUM APR 16, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 21, 1983	8.83	S	MAR 27, 1984	7.34	S	JUL 19, 1984	4.77	S	SEP 25, 1984	5.76	S
JAN 23, 1984	8.98	S	MAY 21	7.32	S						

WELL 05S 28E 26BBD1 SITE NUMBER 425746113093901

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN, DEPTH 760.6 FT, CASED TO 760.6 FT, PERFORATED 730.6-760.6 FT. LSD 4,941.00 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 1 TOP OF 2-IN PIPE COUPLING, 2.27 FT ABOVE LSD (SINCE SEPT. 23, 1970).

RECORDS AVAILABLE 1970 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 678.19 FEET BELOW LAND SURFACE DATUM MAR 29, 1973.

LOWEST WATER LEVEL 685.09 FEET BELOW LAND SURFACE DATUM SEP 17, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1983	681.97	S	MAY 22, 1984	679.73	S	JUL 17, 1984	684.70	S	SEP 18, 1984	681.05	S
MAY 02, 1984	679.92	S									

WELL 05S 33E 35CDC1 SITE NUMBER 425608112340901

FORMERLY SITE ID NO. 425608112335301, WELL NO. 05S 33E 35CCD1. DRILLED OBSERVATION WATER-TABLE WELL IN GRAVEL OF QUATERNARY AGE, DIAM 6 IN, DEPTH 60 FT, CASED TO 60 FT, OPEN BOTTOM. LSD 4,424.58 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED JULY 23, 1957. RECORDER REMOVED SEPT. 20, 1969. DIGITAL RECORDER INSTALLED JULY 21, 1977. MP NO. 2 TOP OF CASING NORTHEAST SIDE, 2.10 FT ABOVE LSD (SINCE MAR. 22, 1955).

RECORDS AVAILABLE 1955 - 1956, 1957 - 1969, 1970 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 22.31 FEET BELOW LAND SURFACE DATUM SEP 30, 1984.

LOWEST WATER LEVEL 28.81 FEET BELOW LAND SURFACE DATUM JUL 19, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	23.23	DEC 15, 1983	23.63		MAY 05, 1984	23.33	JUL 15, 1984	25.36
10	23.23	20	23.65		10	23.36	20	25.38
13	23.15	25	23.79		15	23.22	25	23.52
14	23.15	31	23.82		20	23.15	31	22.78
15	23.25	JAN 05, 1984	23.86		25	23.58	AUG 05	22.88
20	23.27	10	23.87		31	24.05	10	23.27
25	23.45	15	23.91		JUN 05	23.99	15	23.15
31	23.30	19	23.98		10	23.35	20	22.64
NOV 05	23.34	MAR 28	23.70	S	14	22.88	25	22.80
10	23.42	31	23.64		15	23.07	31	22.79
15	23.51	APR 05	23.61		20	24.06	SEP 05	22.72
20	23.39	10	23.56		25	24.32	10	22.56
25	23.49	15	23.66		30	25.24	15	22.54
30	23.63	20	23.42		JUL 05	25.29	20	22.99
DEC 05	23.68	25	23.30		10	25.22	25	22.58
10	23.60	30	23.43		14	25.73	30	22.31

WELL 06S 32E 27ADC1 SITE NUMBER 425216112414301

FORMERLY SITE ID NO. 425218112413901, WELL NO. 06S 32E 27ADD1. DRILLED OBSERVATION WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 6 IN, DEPTH 62.7 FT, CASED TO 73 FT, PERFORATED 63-66 FT, CASING FILLED WITH SAND AND GRAVEL 63-73 FT. LSD 4,416.70 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED FEB. 4, 1955. RECORDER REMOVED JAN. 15, 1969. DIGITAL RECORDER INSTALLED JULY 20, 1977. MP NO. 2 TOP OF 6-IN CASING NORTH SIDE, 2.30 FT ABOVE LSD (SINCE JAN. 12, 1955).

RECORDS AVAILABLE 1954, 1955 - 1969, 1970 - 1971, 1972 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 28.52 FEET BELOW LAND SURFACE DATUM MAY 14, 1984; MAY 15, 1984; MAY 16, 1984; MAY 17, 1984.

LOWEST WATER LEVEL 39.86 FEET BELOW LAND SURFACE DATUM OCT 15, 1961.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1983	31.38	JAN 05, 1984	30.89	APR 15, 1984	29.08	JUN 30, 1984	29.84
05	31.34	10	30.90	20	28.95	JUL 05	30.29
10	31.27	15	30.90	25	28.83	10	30.55
15	31.20	20	30.91	30	28.70	15	30.82
20	31.14	25	30.93	MAY 05	28.61	20	31.18
25	31.07	31	30.96	10	28.56	25	31.33
31	31.02	FEB 05	31.00	13	28.54	31	30.75
NOV 05	30.99	10	31.04	14	28.52	AUG 05	30.22
10	30.98	15	31.05	15	28.52	10	30.11
15	30.96	MAR 01	31.05	16	28.52	15	30.06
20	30.94	05	31.04	17	28.52	20	29.89
25	30.92	10	31.01	20	28.56	25	29.70
30	30.93	15	30.96	25	28.66	31	29.63
DEC 05	30.92	20	30.82	31	28.92	SEP 05	29.53
10	30.91	25	30.40	JUN 05	29.18	10	29.50
15	30.91	28	30.10	10	29.33	15	29.47
20	30.89	31	29.84	15	29.39	20	29.43
25	30.88	APR 05	29.49	20	29.42	25	29.39
31	30.89	10	29.25	25	29.55	30	29.28

WELL 07S 30E 24DDC1 SITE NUMBER 424730112531701

FORMERLY SITE ID NO. 424732112532001. DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN, REPORTED DEPTH 215 FT, CASED TO 187 FT. LSD 4,394.33 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED MAY 25, 1961. RECORDER REMOVED SEPT. 15, 1962. MP NO. 3 TOP OF 1-IN HOLE INSIDE PUMPBASE WEST SIDE, 1.00 FT ABOVE LSD (SINCE AUG. 7, 1978).

RECORDS AVAILABLE 1953, 1961 - 1962, 1963 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 51.98 FEET BELOW LAND SURFACE DATUM MAR 19, 1970.

LOWEST WATER LEVEL 79.26 FEET BELOW LAND SURFACE DATUM SEP 09, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 14, 1983	56.63	S	JAN 10, 1984	56.26	S	APR 19, 1984	53.41	S	JUL 17, 1984	58.34	S
NOV 17	56.64	S	FEB 14	57.17	S	MAY 22	52.99	S	AUG 21	55.65	S
DEC 08	56.30	S	APR 02	53.95	S	JUN 19	55.29	S	SEP 19	55.83	S

WELL 07S 30E 28BBC1 SITE NUMBER 424717112574501

FORMERLY SITE ID NO. 424720112574701. DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN, DEPTH 287.8 FT, CASED TO 3 FT. LSD 4,533.55 FT NGVD OF 1929. ORIGINAL WELL DIAM 18 TO 12 IN, DEPTH 518 FT, CASING WAS PULLED EXCEPT FOR A PIECE THAT IS BELOW WATER LEVEL, HOLE THEN FILLED TO PRESENT DEPTH. RECORDER INSTALLED MAY 25, 1961. RECORDER REMOVED JAN. 15, 1969. RECORDER INSTALLED NOV. 12, 1982. RECORDER REMOVED OCT. 31, 1984. MP NO. 1 TOP OF CASING NORTH SIDE, 1.40 FT ABOVE LSD (SINCE MAY 23, 1961).

RECORDS AVAILABLE 1961 - 1969, 1970 - 1971, 1972 - 1981, 1982 - 1984, 1985 TO CURRENT YEAR.

HIGHEST WATER LEVEL 192.85 FEET BELOW LAND SURFACE DATUM MAY 14, 1984.

LOWEST WATER LEVEL 207.80 FEET BELOW LAND SURFACE DATUM JUL 19, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	197.96	JAN 10, 1984	194.62	APR 15, 1984	193.67	JUL 15, 1984	200.18
10	197.56	15	194.58	19	193.24	20	201.14
15	197.15	20	194.61	20	193.35	22	201.50
20	196.93	25	194.39	25	193.08	25	200.64
25	196.75	31	194.47	30	193.19	31	199.91
31	196.27	FEB 05	194.48	MAY 05	193.05	AUG 05	199.59
NOV 05	196.05	10	194.17	10	193.11	10	199.72
10	195.78	13	194.07	14	192.85	15	199.82
15	195.66	15	194.34	15	192.92	20	199.61
20	195.16	20	194.40	20	192.94	25	199.59
25	195.05	25	194.13	25	192.95	31	199.30
30	195.10	29	194.19	31	193.19	SEP 05	199.21
DEC 05	194.89	MAR 05	194.22	JUN 05	194.00	10	199.06
10	194.82	10	194.18	10	194.29	15	199.07
15	194.74	15	193.96	15	194.46	20	198.23
20	194.60	20	194.09	20	195.07	25	197.77
25	194.57	25	193.94	25	196.26	30	197.05
27	194.42	31	193.74	30	197.68		
31	194.73	APR 05	193.65	JUL 05	198.74		
JAN 05, 1984	194.69	10	193.49	10	199.32		

WELL 08S 29E 34CBC1 SITE NUMBER 424052113033901

DRILLED OBSERVATION WATER-TABLE WELL IN RAFT FORMATION, DIAM 4 TO 3 IN, DEPTH 665 FT, 4-IN CASING 0-170 FT, 3-IN CASING 313-665 FT, CONCRETE SEAL 665-673 FT. LSD 4,389.34 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 4-IN CASING EAST SIDE AT LSD (SINCE DEC. 2, 1970).

RECORDS AVAILABLE 1970, 1971 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 138.08 FEET BELOW LAND SURFACE DATUM MAR 23, 1972.

LOWEST WATER LEVEL 151.31 FEET BELOW LAND SURFACE DATUM DEC 02, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 13, 1983	148.71	S	JAN 11, 1984	148.89	S	APR 19, 1984	149.16	S	JUL 16, 1984	149.06	S
NOV 17	148.97	S	FEB 15	148.52	S	MAY 14	148.22	S	AUG 21	148.72	S
DEC 08	149.05	S	MAR 29	148.38	S	JUN 19	149.44	S	SEP 18	148.80	S

WELL 08S 29E 34CBC2 SITE NUMBER 424052113033902

DRILLED OBSERVATION WATER-TABLE WELL IN SAND OF PLIOCENE AGE, DIAM 3 IN, DEPTH 818 FT, 3-IN CASING 313-818 FT, PERFORATED 697-702 FT, 3/4-IN PIEZOMETER TUBE 0-704 FT, PERFORATED 696.5-701.5 FT, CASING FILLED WITH GRAVEL 673-818 FT, CONCRETE SEAL 665-673 FT, 818-826 FT. LSD 4,389.35 NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN PIPE EAST SIDE, 1.44 ABOVE LSD (SINCE DEC. 2, 1970).

RECORDS AVAILABLE 1970, 1971 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 149.08 FEET BELOW LAND SURFACE DATUM OCT 30, 1975.

LOWEST WATER LEVEL 155.74 FEET BELOW LAND SURFACE DATUM APR 16, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 13, 1983	152.88	S	JAN 11, 1984	153.15	S	APR 19, 1984	152.59	S	JUL 16, 1984	153.65	S
NOV 17	152.61	S	FEB 14	152.77	S	MAY 22	152.53	S	AUG 21	153.49	S
DEC 08	153.16	S	MAR 29	152.62	S	JUN 19	152.56	S	SEP 18	153.60	S

WELL 08S 29E 34CBC3 SITE NUMBER 424052113033903

DRILLED OBSERVATION ARTESIAN WELL IN STARLIGHT FORMATION, DIAM 3 IN, DEPTH 1,028.1 FT, 3-IN CASING 826-899 FT, PERFORATED 852-858 FT, 1-IN PIEZOMETER TUBE 0-861 FT, PERFORATED 853.5-858.5 FT, CASING AND HOLE FILLED WITH GRAVEL 826-1,028.1 FT, CONCRETE SEAL 818-826 FT. LSD 4389.34 NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 1-IN PIPE EAST SIDE, 1.06 FT ABOVE LSD (SINCE DEC. 2, 1970).

RECORDS AVAILABLE 1970, 1971 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 57.80 FEET BELOW LAND SURFACE DATUM DEC 02, 1970.

LOWEST WATER LEVEL 98.29 FEET BELOW LAND SURFACE DATUM SEP 18, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 13, 1983	97.14	S	JAN 11, 1984	97.43	S	APR 19, 1984	97.77	S	JUL 16, 1984	98.02	S
NOV 17	97.27	S	FEB 14	97.56	S	MAY 14	97.84	S	AUG 21	98.19	S
DEC 08	97.34	S	MAR 29	97.72	S	JUN 19	97.94	S	SEP 18	98.29	S

WELL 08S 30E 23DCC1 SITE NUMBER 424220112544601

FORMERLY SITE ID NO. 424359112540801, WELL NO. 08S 30E 23DCD1. DRILLED UNUSED WATER-TABLE WELL IN NEELEY FORMATION, DIAM 5 IN, DEPTH 273 FT, CASED TO 28 FT. LSD 4,511.5 FT NGVD OF 1929. MP NO. 1 TOP OF CASING SOUTHWEST SIDE, 0.40 FT ABOVE LSD (SINCE AUG. 17, 1949).

RECORDS AVAILABLE 1949, 1950 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 204.88 FEET BELOW LAND SURFACE DATUM OCT 16, 1961.

LOWEST WATER LEVEL 214.80 FEET BELOW LAND SURFACE DATUM AUG 17, 1949.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 28, 1984	208.24	S	SEP 17, 1984	207.97	S

WELL 08S 31E 04CBB1 SITE NUMBER 424512112505201

DRILLED UNUSED WATER-TABLE WELL IN SUNBEAM FORMATION, DIAM 6 IN, DEPTH 277.0 FT, CASED TO 16 FT. LSD 4,568.4 FT NGVD OF 1929. MP NO. 1 TOP OF CASING EAST SIDE, 0.50 FT ABOVE LSD (SINCE AUG. 19, 1949).

RECORDS AVAILABLE 1949, 1950 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 232.57 FEET BELOW LAND SURFACE DATUM JUN 21, 1950.

LOWEST WATER LEVEL 245.01 FEET BELOW LAND SURFACE DATUM SEP 20, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 28, 1984	237.72	S	SEP 17, 1984	238.99	S

WELL 09S 28E 18BAD1 SITE NUMBER 423837113134301

DRILLED OBSERVATION WATER-TABLE WELL IN RAFT FORMATION, DEPTH 150 FT, 1-IN PIEZOMETER TUBE 0-25 FT, PERFORATED 17.5-22.5 FT. LSD 4,216.80 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MP NO. 1 TOP OF 1-IN PIPE EAST SIDE, 1.21 FT ABOVE LSD (SINCE DEC. 2, 1970).

RECORDS AVAILABLE 1970, 1971 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 11.69 FEET BELOW LAND SURFACE DATUM JUN 03, 1976.

LOWEST WATER LEVEL 14.52 FEET BELOW LAND SURFACE DATUM MAR 20, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	13.14	S	MAR 29, 1984	12.48	S	JUL 16, 1984	11.88	S	SEP 18, 1984	12.14	S
JAN 11, 1984	13.39	S	MAY 14	12.13	S						

WELL 09S 28E 18BAD2 SITE NUMBER 423837113134302

DRILLED OBSERVATION ARTESIAN WELL IN RAFT FORMATION, DEPTH 505 FT, 3/4-IN PIEZOMETER TUBE 0-420 FT, PERFORATED 412.5-417.5 FT, GRAVEL FILL 318-505 FT, CONCRETE SEAL 280-318 FT, 505-518 FT. LSD 4,216.80 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MP NO. 1 TOP OF 3/4-IN PIPE EAST SIDE, 1.83 FT ABOVE LSD (SINCE DEC. 2, 1970).

RECORDS AVAILABLE 1970, 1971 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.93 FEET ABOVE LAND SURFACE DATUM MAY 04, 1971.

LOWEST WATER LEVEL 14.14 FEET BELOW LAND SURFACE DATUM NOV 17, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	14.14	S	MAR 29, 1984	12.72	S	JUL 16, 1984	11.47	S	SEP 18, 1984	12.27	S
JAN 11, 1984	13.75	S	MAY 14	11.72	S						

WELL 09S 28E 18BAD3 SITE NUMBER 423837113134303

DRILLED OBSERVATION ARTESIAN WELL IN STARLIGHT FORMATION, DEPTH 1,013.7 FT, 1-IN PIEZOMETER TUBE 0-554 FT, PERFORATED 546.5-551.5 FT, GRAVEL FILL 518-1,013.7 FT, CONCRETE SEAL 505-518 FT. LSD 4,216.80 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MP NO. 1 TOP OF 1-IN PIPE, 1.30 FT ABOVE LSD (SINCE DEC. 2, 1970).

RECORDS AVAILABLE 1970, 1971 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 30.07 FEET BELOW LAND SURFACE DATUM SEP 18, 1984.

LOWEST WATER LEVEL 67.62 FEET BELOW LAND SURFACE DATUM DEC 02, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	30.45	S	MAR 29, 1984	30.40	S	JUL 16, 1984	30.38	S	SEP 18, 1984	30.07	S
JAN 11, 1984	30.49	S	MAY 14	30.40	S						

WELL 09S 29E 04BCA1 SITE NUMBER 424013113043801

DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE, DIAM 5 IN, DEPTH 52.6 FT, CASED TO 51.6 FT. LSD 4,226.66 FT NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MP NO. 1 TOP OF 5-IN CASING NORTHEAST SIDE, 0.20 FT BELOW LSD (SINCE NOV. 11, 1982).

RECORDS AVAILABLE 1956, 1982 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.39 FEET BELOW LAND SURFACE DATUM OCT 18, 1956.

LOWEST WATER LEVEL 8.97 FEET BELOW LAND SURFACE DATUM AUG 03, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 05, 1983	7.00		JAN 20, 1984	4.67		APR 20, 1984	3.65		JUL 15, 1984	7.55	
10	6.86		25	4.64		25	3.62		16	7.54	S
15	6.63		31	4.65		30	3.62		20	7.81	
20	6.42		FEB 05	4.62		MAY 05	3.58		21	8.04	
25	6.34		07	4.58		10	3.58		25	7.03	
31	6.17		15	4.56		14	3.94	S	31	6.74	
NOV 05	6.07		20	4.53		15	3.84		AUG 05	6.48	
10	5.98		25	4.48		20	3.64		10	6.69	
15	5.89		29	4.50		25	4.17		15	6.97	
20	5.73		MAR 05	4.49		31	5.12		20	6.92	
25	5.63		10	4.48		JUN 05	4.92		21	6.92	S
30	5.54		15	4.21		10	4.42		25	7.57	
DEC 05	5.46		20	4.01		15	4.23		31	7.65	
10	5.35		25	3.89		19	5.05	S	SEP 05	7.07	
15	5.16		29	3.80		20	5.15		10	6.65	
20	5.04		31	3.78		23	5.06		15	6.70	
31	4.93		APR 05	3.73		25	5.46		18	6.67	S
JAN 05, 1984	4.88		10	3.69		30	6.14				
10	4.83		15	3.69		JUL 05	6.52				
15	4.77		19	3.65		10	7.05				

WELL 09S 29E 18CDA1 SITE NUMBER 423308113063601

DRILLED DOMESTIC WATER-TABLE WELL IN WALCOTT TUFF, DIAM 6 IN, REPORTED DEPTH 250 FT, CASED TO 240 FT. LSD 4,249.34 FT NGVD 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MP NO. 1 TOP OF HOLE IN WELL SEAL NORTHWEST SIDE, 2.00 FT ABOVE LSD (SINCE NOV. 10, 1982).

RECORDS AVAILABLE 1982 TO CURRENT YEAR.

HIGHEST WATER LEVEL 38.34 FEET BELOW LAND SURFACE DATUM MAY 14, 1984.

LOWEST WATER LEVEL 42.48 FEET BELOW LAND SURFACE DATUM JUL 16, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 13, 1983	39.83	S	JAN 11, 1984	39.59	S	MAY 14, 1984	38.34	S	AUG 21, 1984	42.40	S
NOV 17	39.55	S	MAR 29	39.67	S	JUN 19	38.62	S	SEP 18	40.76	S
DEC 08	39.75	S	APR 19	41.20 P	S	JUL 16	42.48	S			

WELL 10S 31E 05DAD1 SITE NUMBER 423439112505701

BORED OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 16.8 FT, CASED TO 16.8 FT, SAND POINT 14.3-16.8 FT. LSD ABOUT 4,750 FT NGVD OF 1929. MP NO. 1 TOP OF 1 1/4-IN PIPE, 1.60 FT ABOVE LSD (SINCE MAY 9, 1978).

RECORDS AVAILABLE 1978 - 1980, 1982 TO CURRENT YEAR.

HIGHEST WATER LEVEL 6.50 FEET BELOW LAND SURFACE DATUM JAN 16, 1980.

LOWEST WATER LEVEL 11.84 FEET BELOW LAND SURFACE DATUM MAY 09, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1983	7.66	S	MAR 28, 1984	6.68	S	JUL 16, 1984	7.04	S	SEP 17, 1984	6.94	S
JAN 10, 1984	7.58	S	MAY 14	7.55	S						

WELL 10S 31E 29BBA1 SITE NUMBER 423151112515201

BORED OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1 1/4 IN, DEPTH 17.4 FT, CASED TO 17.4 FT, SAND POINT 15.4-17.4 FT. LSD ABOUT 4,730 FT NGVD OF 1929. MP NO. 1 TOP OF 1 1/4-IN PIPE, 3.20 FT ABOVE LSD (SINCE MAY 10, 1978).

RECORDS AVAILABLE 1978 - 1980, 1982 TO CURRENT YEAR.

HIGHEST WATER LEVEL 8.85 FEET BELOW LAND SURFACE DATUM JAN 16, 1980.

LOWEST WATER LEVEL 15.31 FEET BELOW LAND SURFACE DATUM MAY 10, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1983	11.78	S	MAR 28, 1984	11.13	S	JUL 16, 1984	9.50	S	SEP 17, 1984	9.43	S
JAN 10, 1984	11.08	S	MAY 14	11.20	S						

WELL 12S 31E 22BCC1 SITE NUMBER 422152112494601

DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 6 IN, DEPTH 106.0 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 5,097 FT NGVD OF 1929. MP NO. 1 EDGE OF CONCRETE BASE SOUTH SIDE, 1.00 FT ABOVE LSD (SINCE AUG. 21, 1978).

RECORDS AVAILABLE 1978 - 1980, 1982 TO CURRENT YEAR.

HIGHEST WATER LEVEL 92.33 FEET BELOW LAND SURFACE DATUM JAN 10, 1984.

LOWEST WATER LEVEL 95.77 FEET BELOW LAND SURFACE DATUM NOV 23, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1983	92.37	S	MAR 28, 1984	92.46	S	MAY 14, 1984	92.38	S	JUL 16, 1984	92.44	S
JAN 10, 1984	92.33	S									

WELL 06N 44E 22DDC1 SITE NUMBER 434936111143601

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 IN, DEPTH 257.5 FT, CASED TO 242 FT. LSD 6,027.70 FT NGVD OF 1929. MP NO. 1 TOP OF CASING, 1.65 FT ABOVE LSD (SINCE JULY 18, 1958).

RECORDS AVAILABLE 1958 - 1971, 1972 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 177.68 FEET BELOW LAND SURFACE DATUM MAR 17, 1972.

LOWEST WATER LEVEL 201.69 FEET BELOW LAND SURFACE DATUM APR 23, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 13, 1984	198.13	S	SEP 10, 1984	192.42	S

WELL 04N 45E 13ADA1 SITE NUMBER 434032111045001

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 16 IN, DEPTH 304.0 FT, CASED TO 301 FT, PERFORATED 230-240 FT, 255-295 FT. LSD 6,275.39 FT NGVD OF 1929, WESTERN WYOMING SUPPLEMENTARY ADJUSTMENT OF 1940. RECORDER INSTALLED JULY 25, 1959. RECORDER REMOVED NOV. 24, 1971. DIGITAL RECORDER INSTALLED JUNE 6, 1977. MP NO. 3 TOP OF CASING EAST SIDE, 1.00 FT ABOVE LSD (SINCE JULY 25, 1959).

RECORDS AVAILABLE 1958, 1959 - 1971, 1972 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 122.79 FEET BELOW LAND SURFACE DATUM JUN 30, 1971.

LOWEST WATER LEVEL 203.52 FEET BELOW LAND SURFACE DATUM MAR 29, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1983	182.39	JAN 10, 1984	189.25	APR 13, 1984	196.31	JUL 12, 1984	136.53
10	183.40	15	189.56	15	196.18	15	138.33
15	183.38	20	189.96	20	195.87	20	141.99
20	182.32	25	190.59	25	193.86	25	145.94
25	181.91	31	191.45	30	189.69	31	149.97
31	182.00	FEB 05	191.70	MAY 05	187.33	AUG 05	152.96
NOV 05	182.46	10	191.89	10	185.49	10	156.17
10	182.98	15	192.34	15	183.97	15	159.89
15	183.52	20	192.73	20	178.24	20	163.60
20	183.51	25	193.15	25	172.99	25	167.15
25	184.04	29	193.50	31	168.90	31	171.00
30	184.63	MAR 05	193.88	JUN 05	162.52	SEP 05	173.84
DEC 05	185.06	10	194.24	10	160.00	10	176.09
10	185.48	15	194.60	15	161.14	15	177.91
15	185.74	20	194.99	20	159.97	20	179.31
20	186.17	25	195.33	25	154.97	25	180.86
25	187.00	31	195.68	30	148.25	30	182.02
31	188.49	APR 05	195.92	JUL 05	140.28		
JAN 05, 1984	189.10	10	196.07	10	137.22		

WELL 08S 12E 24CCC1 SITE NUMBER 424239115001801

FORMERLY SITE ID NO. 424243115002401. DRILLED IRRIGATION WATER-TABLE WELL IN BANBURY FORMATION, DIAM 12 IN, REPORTED DEPTH 500 FT, CASED TO 46 FT. LSD ABOUT 3,470 FT NGVD OF 1929. MP NO. 2 TOP OF HOLE INSIDE PUMPBASE SOUTH SIDE, 0.50 FT ABOVE LSD (SINCE JUNE 3, 1968).

RECORDS AVAILABLE 1967 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 200.84 FEET BELOW LAND SURFACE DATUM APR 25, 1967.

LOWEST WATER LEVEL 294.64 FEET BELOW LAND SURFACE DATUM OCT 21, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	
MAR 19, 1984	218.88	S

WELL 08S 13E 23CCD1 SITE NUMBER 424242114541601

DRILLED DOMESTIC WATER-TABLE WELL IN BANBURY FORMATION, DIAM 6 IN, REPORTED DEPTH 100 FT, CASED TO 50 FT. LSD ABOUT 3,390 FT NGVD OF 1929. MP NO. 1 HOLE IN TOP OF 6-IN CASING, 0.80 FT ABOVE LSD (SINCE FEB. 16, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 65.27 FEET BELOW LAND SURFACE DATUM NOV 12, 1975.

LOWEST WATER LEVEL 73.34 FEET BELOW LAND SURFACE DATUM AUG 12, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	70.17	S	MAR 19, 1984	70.74	S	MAY 11, 1984	71.55	P S	JUL 19, 1984	71.02	P S
JAN 18, 1984	70.38	S									

WELL 09S 13E 20CCD1 SITE NUMBER 423722114574801

FORMERLY SITE ID NO. 423724114572101. DRILLED IRRIGATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 20 IN, REPORTED DEPTH 920 FT, CASED TO 165 FT. LSD ABOUT 3,805 FT NGVD OF 1929. JUNE 17, 1968, WELL HAD FILLED IN TO A DEPTH OF 790.4 FT. RECORDER INSTALLED JUNE 4, 1968. RECORDER REMOVED AUG. 10, 1971. MP NO. 1 TOP OF 20-IN CASING EAST SIDE, 0.70 FT ABOVE LSD (SINCE FEB. 16, 1967).

RECORDS AVAILABLE 1967, 1968 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 440.80 FEET BELOW LAND SURFACE DATUM SEP 23, 1967.

LOWEST WATER LEVEL 454.79 FEET BELOW LAND SURFACE DATUM SEP 21, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	450.65	V	MAR 19, 1984	446.95	V	MAY 11, 1984	445.30	V	JUL 19, 1984	447.75	V
JAN 18, 1984	450.27	V									

WELL 10S 12E 01ACD1 SITE NUMBER 423510114592701

DRILLED UNUSED WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 20 IN, REPORTED DEPTH 900 FT, CASED TO 31 FT. LSD ABOUT 3,710 FT NGVD OF 1929. RECORDER INSTALLED MAR. 9, 1982. MP NO. 1 TOP OF 20-IN CASING NORTHEAST SIDE, 1.20 FT ABOVE LSD (SINCE MAR. 9, 1982).

RECORDS AVAILABLE 1982 TO CURRENT YEAR.

HIGHEST WATER LEVEL 309.15 FEET BELOW LAND SURFACE DATUM MAY 11, 1984.

LOWEST WATER LEVEL 372.70 FEET BELOW LAND SURFACE DATUM SEP 11, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL
FEB 15, 1984	317.62		APR 10, 1984	311.38		JUN 25, 1984	322.31		AUG 15, 1984	346.40
20	317.13		15	311.28		30	326.35		20	342.82
25	316.23		MAY 11	309.15	S	JUL 05	329.21		25	346.54
29	315.86		15	309.43		10	332.64		31	346.51
MAR 05	315.41		20	312.06		15	335.62		SEP 05	349.31
10	314.85		25	315.88		19	337.59	S	10	350.35
15	314.09		31	320.47		20	337.47		15	348.10
20	313.67		JUN 05	323.69		25	340.46		20	347.95
25	313.15		10	324.99		31	341.33		25	345.86
31	312.36		15	320.02		AUG 05	342.40		30	342.42
APR 05	311.93		20	319.29		10	344.26			

WELL 10S 12E 11DBD1 SITE NUMBER 423406115003401

DRILLED UNUSED IRRIGATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 24 IN, DEPTH 687.9 FT, CASED TO 6 FT. LSD 3,750 FT NGVD OF 1929. MP NO. 1 TOP OF CASING NORTHEAST SIDE, 0.50 FT ABOVE LSD (SINCE AUG. 2, 1962).

RECORDS AVAILABLE 1962, 1968 TO CURRENT YEAR.

HIGHEST WATER LEVEL 326.32 FEET BELOW LAND SURFACE DATUM AUG 02, 1962.

LOWEST WATER LEVEL 429.12 FEET BELOW LAND SURFACE DATUM SEP 21, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1983	388.92	S	MAR 19, 1984	369.03	S	MAY 11, 1984	364.60	S	JUL 19, 1984	389.19	S
18, 1984	376.53	S									

WELL 10S 18E 20DDD1 SITE NUMBER 423207114215301

DRILLED PUBLIC SUPPLY WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN, REPORTED DEPTH 1,200 FT, 8-IN CASING 0-735 FT, 6-IN CASING 735-1,110 FT, PERFORATED 300-1,110 FT. LSD ABOUT 3,919 FT NGVD OF 1929. RECORDER INSTALLED AUG. 13, 1951. RECORDER REMOVED FEB. 12, 1952. MP NO. 5 TOP OF HOLE IN CASING COVER WEST SIDE, 1.30 FT ABOVE LSD (SINCE MAR. 19, 1973).

RECORDS AVAILABLE 1951, 1953 - 1961, 1962 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 164.70 FEET BELOW LAND SURFACE DATUM SEP 14, 1972.

LOWEST WATER LEVEL 181.15 FEET BELOW LAND SURFACE DATUM JUL 23, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	174.19	S	MAR 16, 1984	177.24	S	JUL 23, 1984	181.15	S	SEP 14, 1984	177.23	S
JAN 25, 1984	176.15	S	MAY 30	180.39	S						

WELL 11S 15E 07ACB1 SITE NUMBER 422913114442601

DRILLED OBSERVATION WATER-TABLE WELL IN BANBURY FORMATION, DIAM 6 IN, DEPTH 347.0 FT, CASED TO 275 FT, PERFORATED 225-275 FT. LSD 4,108.14 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP EDGE OF CASING CAP WEST SIDE, 1.05 FT ABOVE LSD (SINCE NOV. 15, 1960).

RECORDS AVAILABLE 1960 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 219.94 FEET BELOW LAND SURFACE DATUM SEP 15, 1980.

LOWEST WATER LEVEL 237.89 FEET BELOW LAND SURFACE DATUM MAY 22, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 12, 1984	229.27	S	SEP 10, 1984	220.93	S

WELL 11S 17E 25DDD2 SITE NUMBER 422600114240901

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN, DEPTH 351.6 FT, CASED TO 175 FT, PERFORATED 145-175 FT. LSD 4,138.54 FT NGVD OF 1929. RECORDER INSTALLED OCT. 27, 1960. RECORDER REMOVED AUG. 11, 1971. MP NO. 3 TOP OF CASING NORTH SIDE, 1.50 FT ABOVE LSD (SINCE AUG. 21, 1961).

RECORDS AVAILABLE 1960 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 74.69 FEET BELOW LAND SURFACE DATUM SEP 10, 1984.

LOWEST WATER LEVEL 97.23 FEET BELOW LAND SURFACE DATUM APR 06, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 29, 1984	85.93	S	SEP 10, 1984	74.69	S

WELL 11S 19E 17ABA1 SITE NUMBER 422830114151401

FORMERLY SITE ID NO. 422829114150801, WELL NO. 11S 19E 17AAB1. DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 14 IN, REPORTED DEPTH 860 FT, CASED TO 16 FT. LSD ABOUT 4,229 FT NGVD OF 1929. JULY 17, 1968, WELL HAD FILLED IN TO A DEPTH OF 834.0 FT. RECORDER INSTALLED AUG. 17 1961. MP NO. 4 TOP OF CASING NORTHEAST SIDE, 0.40 FT ABOVE LSD (SINCE JULY 26, 1966).

RECORDS AVAILABLE 1959, 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 315.93 FEET BELOW LAND SURFACE DATUM JUN 16, 1974.

LOWEST WATER LEVEL 333.22 FEET BELOW LAND SURFACE DATUM DEC 03, 1982.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 05, 1983	331.53		DEC 02, 1983	331.47		MAR 28, 1984	328.35	S	JUN 21, 1984	325.84	S
10	331.72		05	331.67		31	328.00		25	325.80	
15	331.72		10	331.32		APR 05	327.86		30	325.81	
20	331.73		15	331.26		10	327.66		JUL 05	325.63	
25	331.96		19	331.02		15	327.66		06	325.51	
31	331.74		26	330.87		20	327.45		10	325.77	
NOV 05	331.77		31	330.95		25	327.03		15	325.81	
10	331.73		JAN 05, 1984	330.75		30	327.23		20	325.67	
15	331.87		10	330.57		MAY 05	326.94		23	325.72	S
20	331.41		16	330.44		10	326.75		SEP 14	327.56	S
25	331.50		23	330.23		15	326.46		15	327.54	
26	331.90		25	330.17		20	326.33		20	327.55	
27	331.90		30	330.06	S	25	326.33		25	327.93	
28	331.60		31	329.95		30	326.06	S	30	327.63	

WELL 11S 19E 23CDA1 SITE NUMBER 422654114115901

DRILLED UNUSED WATER-TABLE WELL IN BANBURY FORMATION, DIAM 18 IN, DEPTH AND CASING INFORMATION NOT AVAILABLE. LSD ABOUT 4,190 FT NGVD OF 1929. RECORDER INSTALLED JULY 8, 1976. RECORDER REMOVED JAN. 27, 1978. MP NO. 1 TOP OF 18-IN CASING NORTH SIDE, 0.60 FT ABOVE LSD (SINCE APR. 27, 1976).

RECORDS AVAILABLE 1976 - 1978, 1979, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 192.39 FEET BELOW LAND SURFACE DATUM APR 27, 1976.

LOWEST WATER LEVEL 345.70 FEET BELOW LAND SURFACE DATUM AUG 15, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	221.60	V	MAR 21, 1984	203.75	V	JUL 23, 1984	270.35	V	SEP 14, 1984	271.57	V
JAN 30, 1984	210.95	V	MAR 28	202.98	V						

WELL 11S 19E 30ADD1 SITE NUMBER 422621114160501

DRILLED UNUSED WATER-TABLE WELL IN BANBURY FORMATION, DIAM, DEPTH, AND CASING INFORMATION NOT AVAILABLE. LSD ABOUT 4,150 FT NGVD OF 1929. RECORDER INSTALLED MAY 26, 1976. RECORDER REMOVED APR. 22, 1982. MP NO. 3 TOP OF SHELTER SOUTH SIDE, 3.51 FT ABOVE LSD (SINCE MAY 26, 1976).

RECORDS AVAILABLE 1952, 1954, 1961, 1963, 1966 - 1967, 1976 - 1979, 1980 - 1982, 1983 TO CURRENT YEAR.

HIGHEST WATER LEVEL 69.10 FEET BELOW LAND SURFACE DATUM MAY 07, 1952.

LOWEST WATER LEVEL 124.02 FEET BELOW LAND SURFACE DATUM AUG 20, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	93.19	S	MAR 21, 1984	91.90	S	JUL 23, 1984	93.03	S	SEP 14, 1984	93.46	S
JAN 30, 1984	92.35	S	MAY 30	92.14	S						

WELL 11S 19E 31ADD1 SITE NUMBER 422529114160701

DRILLED UNUSED WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 IN, REPORTED DEPTH 350 FT, CASED TO 140 FT. LSD 4,197.70 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. IN 1952 WELL WAS CLEANED OUT TO A REPORTED DEPTH OF 280 FT. MP NO. 2 TOP OF HOLE IN WELL SEAL NORTH SIDE, 4.50 FT BELOW LSD (SINCE MAY 18, 1967).

RECORDS AVAILABLE 1951 - 1954, 1955 - 1961, 1962 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 118.75 FEET BELOW LAND SURFACE DATUM MAY 03, 1952.

LOWEST WATER LEVEL 203.80 FEET BELOW LAND SURFACE DATUM JUL 29, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1983	191.20 R	V	MAY 30, 1984	170.49	V	JUL 23, 1984	180.19	V	SEP 14, 1984	191.52	V
MAR 21, 1984	184.25	V									

WELL 14S 15E 28BAD2 SITE NUMBER 421100114421201

FORMERLY SITE ID NO. 421057114421101. DRILLED OBSERVATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 6 IN, DEPTH 455 FT. CASED TO 341 FT, PERFORATED 231-341 FT. LSD 4,976.12 FT NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. AUG. 11, 1971, WELL HAD FILLED IN TO A DEPTH OF 420.4 FT. RECORDER INSTALLED APR. 19, 1961. RECORDER REMOVED AUG. 11, 1971. MP NO. 2 TOP OF CASING WEST SIDE, 2.10 FT ABOVE LSD (SINCE APR. 19, 1961).

RECORDS AVAILABLE 1960, 1961 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 90.76 FEET BELOW LAND SURFACE DATUM NOV 17, 1965.

LOWEST WATER LEVEL 131.50 FEET BELOW LAND SURFACE DATUM SEP 15, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 11, 1983	110.87	S	JAN 11, 1984	106.71	S	MAY 10, 1984	103.65	S	SEP 10, 1984	106.46	S
NOV 28	107.68	S	MAR 12	105.40	S	JUL 10	110.39	S S			

WELL 18N 03E 36BCD1 SITE NUMBER 445120116022301

FORMERLY SITE ID NO. 445126116023601, WELL NO. 18N 03E 36BC 1. DRILLED DOMESTIC WATER-TABLE WELL IN OUTWASH OF PLEISTOCENE AGE, DIAM 5 TO 6 IN, REPORTED DEPTH 177 FT, 5-IN CASING 0-140 FT, 6-IN CASING 140-160 FT, PERFORATED 140-160 FT, GRAVEL FILL 125-177 FT. LSD ABOUT 5,120 FT NGVD OF 1929. MP NO. 3 TOP OF HOLE IN WELL SEAL SOUTHEAST SIDE, 0.60 FT ABOVE LSD (SINCE MAR. 11, 1975).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 32.25 FEET BELOW LAND SURFACE DATUM SEP 19, 1974.

LOWEST WATER LEVEL 44.95 FEET BELOW LAND SURFACE DATUM AUG 03, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1983	43.02	S	MAR 13, 1984	41.66	S	JUL 19, 1984	42.16	S	SEP 20, 1984	41.73	S
JAN 11, 1984	43.05	S									

WELL 16N 03E 14AAB1 SITE NUMBER 444351116030001

DRILLED DOMESTIC WATER-TABLE WELL IN OUTWASH OF PLEISTOCENE AGE, DIAM 5 TO 6 IN, REPORTED DEPTH 110 FT, 5-IN CASING 0-80 FT, 6-IN CASING 80-100 FT, PERFORATED 80-100 FT, GRAVEL FILL. LSD ABOUT 4,865 FT NGVD OF 1929. MP NO. 1 TOP OF 1 1/4-IN HOLE IN TOP OF WELL COVER, 1.20 FT ABOVE LSD (SINCE MAR. 14, 1967).

RECORDS AVAILABLE 1967 - 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.19 FEET BELOW LAND SURFACE DATUM MAR 09, 1983.

LOWEST WATER LEVEL 4.05 FEET BELOW LAND SURFACE DATUM AUG 01, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAY 16, 1984	1.58	S	SEP 20, 1984	2.78	S

WELL 13N 04E 16BAD1 SITE NUMBER 442755115592201

DRILLED DOMESTIC WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 6 IN, REPORTED DEPTH 84 FT, CASED TO 67 FT. LSD ABOUT 4,770 FT NGVD OF 1929. MP NO. 1 TOP OF 6-IN CASING WEST SIDE, 0.60 FT ABOVE LSD (SINCE MAR. 14, 1967).

RECORDS AVAILABLE 1967 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 20.85 FEET BELOW LAND SURFACE DATUM JUL 08, 1974.

LOWEST WATER LEVEL 29.92 FEET BELOW LAND SURFACE DATUM AUG 13, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 12, 1984	25.17	S	SEP 17, 1984	28.22	S

WASHINGTON COUNTY

WELL 14N 02W 10BCA1 SITE NUMBER 444401116463001

DRILLED UNUSED ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN, DEPTH 128.9 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,705 FT NGVD OF 1929. MP NO. 2 TOP OF 6-IN CASING EAST SIDE, 0.70 FT ABOVE LSD (SINCE JULY 11, 1984).

RECORDS AVAILABLE 1974 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.32 FEET BELOW LAND SURFACE DATUM MAR 14, 1984.

LOWEST WATER LEVEL 5.89 FEET BELOW LAND SURFACE DATUM JUL 16, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	3.82	S	MAR 14, 1984	3.32	S	JUL 11, 1984	4.65	S	SEP 20, 1984	4.73	S
JAN 11, 1984	3.88	S	MAY 04	3.94	S						

WELL 13N 04W 12CDC1 SITE NUMBER 442815116455901

DRILLED IRRIGATION WATER-TABLE WELL IN IDAHO GROUP, DIAM 6 IN, DEPTH 169.6 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,625 FT NGVD OF 1929. MP NO. 2 TOP OF HOLE IN WELL SEAL NORTH SIDE, 0.60 FT ABOVE LSD (SINCE MAR. 23, 1967).

RECORDS AVAILABLE 1961 - 1973, 1974 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.14 FEET BELOW LAND SURFACE DATUM NOV 27, 1961.

LOWEST WATER LEVEL 94.32 FEET BELOW LAND SURFACE DATUM SEP 19, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	37.06	S	MAR 14, 1984	35.87	S	JUL 11, 1984	35.19	S	SEP 21, 1984	34.76	S
JAN 11, 1984	36.60	S	MAY 03	34.42	S						

WELL 13N 01W 32AC01 SITE NUMBER 442509116284501

DRILLED DOMESTIC WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 6 IN, DEPTH 142.3 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 3,270 FT NGVD OF 1929. MP NO. 1 TOP OF CASING SOUTH SIDE, 1.50 FT ABOVE LSD (SINCE MAY 30, 1974).

RECORDS AVAILABLE 1974 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 53.74 FEET BELOW LAND SURFACE DATUM MAY 30, 1974.

LOWEST WATER LEVEL 82.41 FEET BELOW LAND SURFACE DATUM NOV 17, 1983.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	82.41	S	MAR 14, 1984	74.70	S	JUL 11, 1984	70.39	S	SEP 21, 1984	75.94	S
JAN 11, 1984	78.20	S	MAY 03	72.45	S						

WELL 12N 04W 31DBB1 SITE NUMBER 441957116514201

DRILLED DOMESTIC WATER-TABLE WELL IN IDAHO GROUP, DIAM 6 IN, REPORTED DEPTH 95 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,510 FT NGVD OF 1929. MP NO. 1 INNER EDGE OF CONCRETE PIT LINING EAST SIDE, 1.20 FT ABOVE LSD (SINCE MAR. 23, 1967).

RECORDS AVAILABLE 1967 - 1973, 1974 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 24.12 FEET BELOW LAND SURFACE DATUM SEP 09, 1968.

LOWEST WATER LEVEL 39.88 FEET BELOW LAND SURFACE DATUM MAR 10, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	34.10	S	MAR 15, 1984	37.49	S	JUL 11, 1984	34.88	S	SEP 21, 1984	30.07	S
JAN 12, 1984	38.26	S	MAY 03	38.33	S						

WELL 11N 06W 25CAC1 SITE NUMBER 441527117002501

DRILLED DOMESTIC WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 10 IN, REPORTED DEPTH 39 FT, CASING DEPTH NOT AVAILABLE. LSD ABOUT 2,127 FT NGVD OF 1929. MP NO. 2 TOP OF HOLE IN WELL SEAL, 4.54 FT BELOW LSD (SINCE MAR. 27, 1980).

RECORDS AVAILABLE 1974 - 1975, 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 6.58 FEET BELOW LAND SURFACE DATUM SEP 12, 1978.

LOWEST WATER LEVEL 13.45 FEET BELOW LAND SURFACE DATUM MAR 12, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 17, 1983	10.90	S	MAR 15, 1984	10.02	S	JUL 10, 1984	7.41	R S	SEP 21, 1984	7.41	S
JAN 12, 1984	10.69	S	MAY 03	10.34	S						

FOOTNOTE EXPLANATION

SITE STATUS: D DRY, E FLOWED RECENTLY, F FLOWING,
G NEARBY FLOWING, N MEASUREMENT DISCONTINUED,
O OBSTRUCTION, P PUMPING, R RECENTLY PUMPED,
S NEARBY PUMPING, V FOREIGN SUBSTANCE, W WELL DESTROYED.

METHOD OF MEASUREMENT: E ESTIMATED, G PRESSURE GAGE,
M MANOMETER, S STEEL TAPE, T ELECTRIC TAPE,
V CALIBRATED ELECTRIC TAPE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
				BINGHAM					
431309112271201	43 13 09	112 27 12	01	02S 34E 26BCCC1 WHITING	84-03-01	1520	46.00	4453.00	444
					84-04-12	0945	46.00	4453.00	471
					84-05-25	1620	46.00	4453.00	459
431301112215601	43 13 01	112 21 56	01	02S 35E 28CAAD1 YANCY	84-03-08	1515	80.00	4489.00	393
					84-04-11	1105	--	--	391
					84-05-23	1130	90.00	4485.00	417
431250112222801	43 12 50	112 22 23	01	02S 35E 28CCBB1 CHARLES	84-07-24	1445	46.50	4484.00	493
431242112215801	43 12 42	112 21 53	01	02S 35E 23CDDD2 BIBLE CH	84-01-31	1530	93.00	4482.00	502
					84-03-07	1100	93.00	4482.00	471
					84-04-10	1910	93.00	4482.00	559
					84-05-22	1620	93.00	4482.00	495
					84-07-18	1915	93.00	4482.00	529
431307112213701	43 13 07	112 21 37	01	02S 35E 28DBAA1 HOFMINE	84-03-08	1320	90.00	4488.00	354
					84-04-10	0830	90.00	4488.00	365
					84-05-23	1040	90.00	4485.00	363
					84-07-19	0915	90.00	4488.00	469
431239112223501	43 12 39	112 22 35	01	02S 35E 32AAB1 YATES/STO	84-05-31	0940	83.00	4484.00	470
					84-07-24	1545	83.00	4484.00	450
431231112230201	43 12 31	112 23 02	01	02S 35E 32ABCC1 IDLE WHE	84-04-12	1915	--	--	456
					84-05-31	1215	95.00	4477.00	491
					84-07-24	1945	95.00	4477.00	450
431218112230401	43 12 18	112 23 04	01	02S 35E 32ACC1 JESSE TAY	84-05-31	2000	83.00	4477.00	473
					84-07-25	0945	83.00	4477.00	506
431217112225201	43 12 17	112 22 52	01	02S 35E 32ACDD1 CICCONE	84-03-02	0945	--	4479.00	494
431214112225001	43 12 14	112 22 50	01	02S 35E 32ACDC2 HERBST	84-03-01	1645	E125	4478.00	456
					84-04-11	1450	125	4475.00	517
					84-05-24	1720	125	4478.00	432
					84-07-25	1045	125	4478.00	475
431217112223401	43 12 17	112 22 34	01	02S 35E 32ADDC1 KOA	84-02-02	1445	80.00	4479.00	553
					84-03-06	1330	80.00	4479.00	533
					84-04-11	1305	80.00	4479.00	635
					84-05-22	1745	80.00	4481.00	527
					84-07-24	1040	80.00	4479.00	651
431216112223201	43 12 16	112 22 32	01	02S 35E 32ADDD1 SHOEMAKE	84-03-06	1500	--	4479.00	523
431239112230901	43 12 39	112 23 09	01	02S 35E 32BAA1 ROHDE	84-05-31	1730	105	4481.00	494
					84-07-24	1645	105	4481.00	509
431207112231201	43 12 07	112 23 12	01	02S 35E 32CAD1 GRIFFITH/	84-05-31	1400	76.00	4471.00	418
					84-07-25	1265	76.00	4471.00	405
431149112232401	43 11 49	112 23 24	01	02S 35E 32CCDD1 SHIELD	84-03-01	1445	--	4470.00	422
					84-04-12	1100	--	4470.00	513

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	DATE OF SAMPLE	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)
					BINGHAM						
431309112271201	84-03-01	7.4	11.5	14.0	70	12	9.7	5	.3	3.5	230
	84-04-12	7.4	2.5	14.5	--	--	--	--	--	3.2	220
	84-05-25	7.3	18.5	14.5	--	--	--	--	--	2.9	210
431301112215601	84-03-08	7.4	11.0	13.0	54	11	11	12	.4	2.2	160
	84-04-11	7.5	--	13.0	--	--	--	--	--	--	160
	84-05-23	7.5	26.0	13.0	--	--	--	--	--	2.2	160
431250112222801	84-07-26	7.2	--	12.5	--	--	--	--	--	--	250
431242112215801	84-01-31	7.3	6.0	8.5	59	18	15	13	.5	4.5	220
	84-03-07	7.7	5.0	9.5	--	--	--	--	--	--	210
	84-04-10	7.6	4.5	9.5	--	--	--	--	--	4.1	290
	84-05-22	7.5	23.5	10.0	--	--	--	--	--	3.9	210
	84-07-18	7.5	36.0	10.0	--	--	--	--	--	4.8	260
431307112213701	84-03-05	7.6	11.0	13.5	45	10	11	13	.4	2.8	140
	84-04-10	7.4	7.0	13.0	--	--	--	--	--	2.3	120
	84-05-23	7.4	25.0	12.0	--	--	--	--	--	2.1	150
	84-07-19	7.3	23.5	11.5	--	--	--	--	--	2.1	220
431239112223501	84-05-31	7.5	14.5	12.5	--	--	--	--	--	2.5	210
	84-07-24	7.3	33.5	12.5	--	--	--	--	--	--	210
431231112230201	84-04-12	7.3	--	10.5	--	--	--	--	--	--	180
	84-05-31	7.4	12.5	10.5	--	--	--	--	--	3.0	190
	84-07-24	7.3	33.0	10.5	--	--	--	--	--	--	200
431218112230401	84-05-31	7.4	18.0	11.5	--	--	--	--	--	3.0	200
	84-07-25	7.3	26.0	12.0	--	--	--	--	--	--	210
431217112225201	84-03-02	7.4	-1.0	11.0	67	16	14	11	.4	3.6	260
431214112225001	84-03-01	7.3	12.5	11.5	69	16	14	11	.4	3.5	220
	84-04-11	7.3	11.0	12.5	--	--	--	--	--	3.2	230
	84-05-24	7.3	19.5	12.5	--	--	--	--	--	2.8	180
	84-07-25	7.4	23.0	12.5	--	--	--	--	--	--	210
431217112223401	84-02-02	7.1	--	10.0	65	17	25	19	.7	3.6	220
	84-03-06	7.4	5.0	10.0	--	--	--	--	--	--	210
	84-04-11	7.4	10.5	10.5	--	--	--	--	--	3.5	240
	84-05-22	7.2	23.0	10.5	--	--	--	--	--	3.4	190
	84-07-24	7.2	27.0	10.5	--	--	--	--	--	--	210
431216112223201	84-03-06	7.4	10.5	10.5	--	--	--	--	--	--	220
431239112230901	84-05-31	7.4	20.0	12.5	--	--	--	--	--	3.3	220
	84-07-24	7.3	36.0	12.5	--	--	--	--	--	--	230
431207112231201	84-05-31	7.6	17.5	12.0	--	--	--	--	--	3.1	170
	84-07-25	7.5	32.5	12.5	--	--	--	--	--	--	190
431149112232401	84-03-01	7.4	11.0	12.0	63	11	10	10	.3	2.3	200
	84-04-12	7.2	5.0	11.5	--	--	--	--	--	2.4	230

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	DATE OF SAMPLE	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)
					BINGHAM						
431309112271201	84-03-01	--	18	26	7.9	.70	23	290	.38	.41	.050
	84-04-12	--	17	25	--	--	--	--	.35	.52	.020
	84-05-25	--	21	--	--	--	--	--	--	.60	<.010
431301112215601	84-03-08	--	13	32	11	.70	17	240	.32	.64	.030
	84-04-11	--	10	--	--	--	--	--	--	--	--
	84-05-23	--	10	--	--	--	--	--	--	1.7	<.010
431250112222601	84-07-24	--	31	--	--	--	--	--	--	.92	<.010
431242112215801	84-01-31	--	22	28	13	.90	24	300	.38	.10	--
	84-03-07	--	8.2	--	--	--	--	--	.38	<.10	.910
	84-04-10	--	14	16	--	--	--	--	.43	<.10	.760
	84-05-22	--	13	--	--	--	--	--	--	<.10	.390
	84-07-18	--	16	--	--	--	--	--	--	<.10	.930
431307112213701	84-03-09	--	6.8	28	11	.80	16	210	.29	.44	.020
	84-04-10	--	9.5	30	--	--	--	--	.29	.60	.050
	84-05-23	--	11	--	--	--	--	--	--	.70	<.010
	84-07-19	--	22	--	--	--	--	--	--	1.6	.030
431239112223501	84-05-31	--	13	--	--	--	--	--	--	.35	<.010
	84-07-24	--	21	--	--	--	--	--	--	.67	<.010
431231112230201	84-04-12	--	18	--	--	--	--	--	--	--	--
	84-05-31	--	15	--	--	--	--	--	--	1.8	<.010
	84-07-24	--	19	--	--	--	--	--	--	[illegible]	<.010
431218112230401	84-05-31	--	15	--	--	--	--	--	--	2.4	.100
	84-07-25	--	21	--	--	--	--	--	--	2.7	.010
431217112225201	84-03-02	--	14	35	13	.70	23	280	.41	2.5	.040
431214112225001	84-03-01	--	22	35	11	.70	22	300	.41	2.2	.090
	84-04-11	--	22	36	--	--	--	--	.42	2.1	.040
	84-05-24	--	18	--	--	--	--	--	--	1.2	<.010
	84-07-25	--	16	--	--	--	--	--	--	1.9	.010
431217112223401	84-02-02	--	34	35	27	.80	21	330	.43	<.10	--
	84-03-06	--	16	--	--	--	--	--	.43	<.10	.210
	84-04-11	--	19	33	--	--	--	--	.49	.35	.150
	84-05-22	--	23	--	--	--	--	--	--	5.2	.370
	84-07-24	--	26	--	--	--	--	--	--	1.5	.030
431216112223201	84-03-06	--	17	--	--	--	--	--	--	<.10	.150
431239112230901	84-05-31	--	17	--	--	--	--	--	--	.42	.020
	84-07-24	--	22	--	--	--	--	--	--	1.5	.010
431207112231201	84-05-31	--	8.4	--	--	--	--	--	--	.99	<.010
	84-07-25	--	12	--	--	--	--	--	--	.99	<.010
431149112232401	84-03-01	--	15	30	9.4	.80	21	270	.44	<.10	.040
	84-04-12	--	28	33	--	--	--	--	.42	.35	.030

BEST COPY AVAILABLE

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	DATE OF SAMPLE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
				BINGHAM						
431309112271201	84-03-01	.06	--	--	--	--	7	<1	--	1.3
	84-04-12	.03	.28	.30	--	--	8	2	95	.90
	84-05-25	--	--	.60	--	.060	10	<10	120	.80
431301112215601	84-03-08	.04	--	--	--	--	<3	<1	--	.50
	84-04-11	--	--	--	--	--	--	--	--	--
	84-05-23	--	--	.30	--	.060	5	2	46	.60
431250112222801	84-07-24	--	--	.50	--	--	--	--	--	--
431242112215901	84-01-31	--	--	--	--	--	1900	2600	--	--
	84-03-07	1.2	--	--	--	--	1700	2500	--	.90
	84-04-10	.98	.54	1.3	--	--	1400	2700	47	1.4
	84-05-22	.50	.51	.90	--	.050	460	1800	49	.90
	84-07-13	1.3	.32	1.3	--	<.010	2000	2900	32	1.5
431307112213701	84-03-08	.03	--	--	--	--	5	<1	--	.90
	84-04-10	.06	.25	.30	--	--	6	2	45	.60
	84-05-23	--	--	.70	--	.060	4	<1	55	.90
	84-07-19	.04	.37	.40	--	.030	5	3	39	1.1
431239112223501	84-05-31	--	--	.30	--	.010	10	<10	70	.80
	84-07-24	--	--	.40	--	--	--	--	--	--
431231112230201	84-04-12	--	--	--	--	--	--	--	--	--
	84-05-31	--	--	1.0	--	.010	10	30	80	.70
	84-07-24	--	--	.60	--	--	--	--	--	--
431218112230401	84-05-31	.13	.60	.70	--	.070	20	<10	40	.90
	84-07-25	.01	.39	.40	--	--	--	--	--	--
431217112225201	84-03-02	.05	--	--	--	--	4	<1	--	.50
431214112225001	84-03-01	.10	--	--	--	--	12	<1	--	1.1
	84-04-11	.05	1.1	1.1	--	--	9	4	180	.60
	84-05-24	--	--	.50	--	.030	10	<10	70	.70
	84-07-25	.01	.19	.20	--	--	--	--	--	--
431217112223401	84-02-02	--	--	--	--	--	59	490	--	--
	84-03-06	.27	--	--	--	--	100	600	--	.80
	84-04-11	.19	.15	.30	--	--	23	580	65	1.0
	84-05-22	.48	.83	1.2	--	.020	29	180	58	.70
	84-07-24	.04	.37	.40	--	--	8	23	63	--
431216112223201	84-03-06	.19	--	--	--	--	--	--	--	1.1
431239112230901	84-05-31	.03	.48	.50	--	.010	7	10	110	.70
	84-07-24	.01	.29	.30	--	--	--	--	--	--
431207112231201	84-05-31	--	--	.30	--	.010	<10	20	90	.70
	84-07-25	--	--	.80	--	--	--	--	--	--
431149112232401	84-03-01	.05	--	--	--	--	4	15	--	.60
	84-04-12	.04	5.0	5.0	--	--	5	7	76	.50

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

BINGHAM

STATION NUMBER	LAT-I-TUDE	LONG-I-TUDE	SEG. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
431149112232401	43 11 49	112 23 24	01	02S 35E 32CCDD1 SHIELD	84-05-23	1440	--	4470.00	563
					84-07-25	1330	--	4470.00	520
431149112231401	43 11 49	112 23 14	01	02S 35E 32CDDC2 JARRETT	84-02-28	1715	56.00	4471.00	369
					84-04-10	1610	56.00	4471.00	385
					84-05-22	1350	56.00	4471.00	455
					84-07-25	1130	56.00	4471.00	402
431206112224101	43 12 06	112 22 41	01	02S 35E 32DACA1 NP FRESH	84-01-31	1430	110	4478.00	510
					84-03-06	1025	110	4478.00	495
					84-05-24	1430	110	4478.00	353
					84-07-26	1130	110	4478.00	438
431204112223201	43 12 04	112 22 32	01	02S 35E 32DADA1 ANIMAL H	84-02-02	1530	680.00	4475.00	497
					84-03-06	1600	80.00	4475.00	485
					84-04-11	1700	80.00	4475.00	461
					84-05-23	1810	80.00	4475.00	450
					84-07-24	1945	80.00	4475.00	475
431204112223601	43 12 04	112 22 36	01	02S 35E 32DADB1 AGRIC. S	84-02-02	1620	95.00	4475.00	509
					84-03-06	1200	95.00	4475.00	512
					84-04-11	1615	--	--	515
					84-05-24	1815	95.00	4475.00	402
431207112225801	43 12 07	112 22 58	01	02S 35E 32DBCA1 AMERICAN	84-02-02	1345	155	4473.00	477
					84-03-07	1415	155	4473.00	469
					84-04-13	1215	155	4473.00	439
					84-05-31	1115	155	4473.00	367
					84-07-26	1230	155	4473.00	381
431153112225901	43 11 53	112 22 59	01	02S 35E 32DCCA1 MANGUM	84-03-07	1715	103	4472.00	442
					84-04-10	1100	103	4472.00	413
					84-05-31	1315	103	4472.00	394
					84-07-19	1215	103	4472.00	382
431148112231401	43 11 48	112 23 14	01	02S 35E 32CCCC1 BABCOCK	84-04-13	1850	--	--	389
431155112224301	43 11 55	112 22 43	01	02S 35E 32DDBD1 VAN GAS	84-04-12	1545	45.62	4474.00	396
					84-05-24	1000	45.62	4474.00	371
					84-07-25	1510	45.62	4474.00	324
431239112213401	43 12 39	112 21 34	01	02S 35E 33AABB1 NP #2	84-02-02	1000	61.00	4484.00	545
					84-02-29	1033	61.00	4484.00	519
					84-04-13	1615	61.00	4484.00	696
					84-05-25	0950	61.00	4484.00	647
					84-07-27	0915	61.00	4484.00	1070
431235112220401	43 12 35	112 22 04	01	02S 35E 33BABD1 GREGAN	84-01-31	1630	82.00	4483.00	467
					84-03-07	1230	82.00	4483.00	459
					84-04-11	1010	82.00	4483.00	420

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

BINGHAM

STATION NUMBER	DATE OF SAMPLE	PH (STANDARD UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)
431149112232401	84-05-23	7.1	25.0	13.0	--	--	--	--	--	2.7	250
	84-07-25	7.2	33.5	12.5	--	--	--	--	--	--	250
431149112231401	84-02-28	7.5	--	13.0	51	11	11	12	.4	2.1	150
	84-04-10	7.5	6.0	12.0	50	11	11	12	.4	2.3	160
	84-05-22	7.3	25.0	11.0	--	--	--	--	--	2.3	190
	84-07-25	7.4	29.0	11.0	--	--	--	--	--	--	200
431206112224101	84-01-31	7.4	3.0	11.0	70	17	14	11	.4	3.4	210
	84-03-06	7.2	2.0	11.5	--	--	--	--	--	--	200
	84-05-24	7.3	--	9.5	--	--	--	--	--	2.4	150
	84-07-26	7.4	32.0	10.0	--	--	--	--	--	--	200
431204112223201	84-02-02	7.3	--	12.0	69	16	14	11	.4	3.4	220
	84-03-06	7.3	10.5	12.5	--	--	--	--	--	--	220
	84-04-11	7.2	11.0	12.5	--	--	--	--	--	3.3	210
	84-05-23	7.3	19.0	12.5	--	--	--	--	--	2.9	190
	84-07-24	7.3	34.0	12.0	--	--	--	--	--	--	210
431204112223601	84-02-02	7.4	--	12.5	70	17	14	11	.4	3.6	230
	84-03-06	7.3	7.5	12.0	--	--	--	--	--	--	220
	84-04-11	7.3	--	12.5	--	--	--	--	--	--	220
	84-05-24	7.3	19.0	11.5	--	--	--	--	--	2.7	160
431207112225801	84-02-02	7.3	--	12.0	63	16	13	11	.4	3.1	200
	84-03-07	7.4	13.0	12.0	--	--	--	--	--	--	200
	84-04-13	7.5	19.0	11.0	--	--	--	--	--	2.7	180
	84-05-31	7.6	13.0	10.0	--	--	--	--	--	2.7	160
	84-07-26	7.5	33.0	9.5	--	--	--	--	--	--	170
431153112225901	84-03-07	7.5	9.5	11.0	59	14	12	11	.4	2.6	230
	84-04-10	7.4	12.0	10.5	--	--	--	--	--	2.4	180
	84-05-31	7.6	16.5	10.0	--	--	--	--	--	2.1	160
	84-07-19	7.4	27.0	11.0	--	--	--	--	--	2.3	190
431148112231401	84-04-13	7.7	16.0	9.0	--	--	--	--	--	1.8	150
431155112224301	84-04-12	7.5	13.5	9.0	--	--	--	--	--	2.2	160
	84-05-24	7.6	12.5	10.0	--	--	--	--	--	1.6	150
	84-07-25	7.6	34.0	14.0	--	--	--	--	--	--	150
431239112213401	84-02-02	7.5	--	11.5	55	18	16	13	.5	9.8	250
	84-02-28	7.6	--	11.5	58	19	16	13	.5	9.4	230
	84-04-13	7.3	20.5	12.0	--	--	--	--	--	13	310
	84-05-25	7.4	11.5	11.5	--	--	--	--	--	9.9	320
	84-07-27	6.8	--	10.5	--	--	--	--	--	50	510
431235112220401	84-01-31	7.3	6.0	8.5	54	16	19	17	.6	5.5	200
	84-03-07	7.4	10.0	11.5	--	--	--	--	--	--	190
	84-04-11	7.4	11.0	11.0	--	--	--	--	--	6.1	290

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	DATE OF SAMPLE	ALKA-LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
					BINGHAM						
431149112232401	84-05-23	--	39	--	--	--	--	--	--	.36	<.010
	84-07-25	--	30	--	--	--	--	--	--	1.2	<.010
431149112231401	84-02-28	--	9.5	32	9.7	.70	17	230	.30	.25	.040
	84-04-10	--	9.5	32	11	.70	16	230	.33	.48	.040
	84-05-22	--	18	--	--	--	--	--	--	.24	<.010
	84-07-25	--	15	--	--	--	--	--	--	<.10	.020
431206112224101	84-01-31	--	16	35	17	.60	22	310	.39	1.6	--
	84-03-06	--	25	--	--	--	--	--	.41	1.6	.020
	84-05-24	--	14	--	--	--	--	--	--	--	--
	84-07-26	--	15	--	--	--	--	--	--	1.3	<.010
431204112223201	84-02-02	--	22	36	14	.70	22	310	.41	1.5	--
	84-03-06	--	22	--	--	--	--	--	.41	1.4	.020
	84-04-11	--	26	34	--	--	--	--	.39	1.7	.030
	84-05-23	--	18	--	--	--	--	--	--	1.3	<.010
	84-07-24	--	21	--	--	--	--	--	--	1.5	.010
431204112223601	84-02-02	--	18	36	14	.70	23	320	.41	.14	--
	84-03-06	--	22	--	--	--	--	--	.42	1.6	.050
	84-04-11	--	22	--	--	--	--	--	--	--	--
	84-05-24	--	16	--	--	--	--	--	--	1.0	<.010
431207112225901	84-02-02	--	19	35	13	.70	21	280	.36	1.2	--
	84-03-07	--	16	--	--	--	--	--	.38	1.4	.070
	84-04-13	--	11	34	--	--	--	--	.35	1.0	.050
	84-05-31	--	7.6	--	--	--	--	--	--	.67	<.010
	84-07-26	--	11	--	--	--	--	--	--	.77	<.010
431153112225901	84-03-07	--	14	26	12	.70	19	280	.38	.67	.040
	84-04-10	--	13	32	--	--	--	--	.37	.70	.030
	84-05-31	--	8.0	--	--	--	--	--	--	.13	<.010
	84-07-19	--	16	--	--	--	--	--	--	.32	.010
431148112231401	84-04-13	--	5.7	36	--	--	--	--	.29	.35	.020
431155112224301	84-04-12	--	9.5	37	--	--	--	--	.32	.78	.030
	84-05-24	--	7.2	--	--	--	--	--	--	1.0	<.010
	84-07-25	--	7.2	--	--	--	--	--	--	.37	.030
431239112213401	84-02-02	--	15	34	15	.90	27	330	.41	<.10	--
	84-02-28	--	11	34	12	.90	27	320	.41	<.10	1.30
	84-04-13	--	30	21	--	--	--	--	--	1.4	1.10
	84-05-25	--	25	--	--	--	--	--	--	.78	1.10
	84-07-27	--	156	--	--	--	--	--	--	9.0	.650
431235112220401	84-01-31	--	20	39	14	.80	23	300	.40	<.10	--
	84-03-07	--	15	--	--	--	--	--	.36	<.10	.970
	84-04-11	--	23	28	--	--	--	--	.49	<.10	1.10

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	DATE OF SAMPLE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
				BINGHAM						
431149112232401	84-05-23	--	--	.40	--	.050	<3	<1	79	.50
	84-07-25	--	--	.40	--	--	--	--	--	--
431149112231401	84-02-28	.05	--	--	--	--	4	37	--	.60
	84-04-10	.05	.16	.20	--	--	<3	6	72	.50
	84-05-22	--	--	.70	--	.050	14	48	79	.60
	84-07-25	.03	.28	.30	--	--	--	--	--	--
431206112224101	84-01-31	--	--	--	--	--	<3	<1	--	--
	84-03-06	.03	--	--	--	--	40	<10	--	.70
	84-05-24	--	--	--	--	--	30	<10	40	--
	84-07-26	--	--	1.0	--	--	--	--	--	--
431204112223201	84-02-02	--	--	--	--	--	5	6	--	--
	84-03-06	.03	--	--	--	--	20	<10	--	.70
	84-04-11	.04	.67	.70	--	--	14	9	150	.50
	84-05-23	--	--	.20	--	.060	50	<10	60	.30
	84-07-24	.01	.19	.20	--	--	--	--	30	--
431204112223601	84-02-02	--	--	--	--	--	4	2	--	--
	84-03-06	.06	--	--	--	--	40	<10	--	.70
	84-04-11	--	--	--	--	--	--	--	--	--
	84-05-24	--	--	.80	--	.060	30	<10	70	.80
431207112225801	84-02-02	--	--	--	--	--	7	2	--	--
	84-03-07	.04	--	--	--	--	50	<10	--	.60
	84-04-13	.06	.15	.20	--	--	5	3	15	.40
	84-05-31	--	--	.60	--	.010	40	10	50	.90
	84-07-26	--	--	.40	--	--	--	--	--	--
431153112225901	84-03-07	.05	--	--	--	--	55	240	--	.90
	84-04-10	.04	--	<.20	--	--	18	150	63	.40
	84-05-31	--	--	.40	--	.020	66	360	22	.90
	84-07-19	.01	.19	.20	--	.020	79	490	15	1.1
431148112231401	84-04-13	.03	.48	.50	--	--	3	<1	58	.60
431155112224301	84-04-12	.04	.37	.40	--	--	9	6	54	.70
	84-05-24	--	--	.60	--	.020	20	<10	40	.70
	84-07-25	.03	.18	.20	--	--	--	--	--	--
431239112213401	84-02-02	--	--	--	--	--	3800	3100	--	--
	84-02-28	1.7	--	--	--	--	1800	3000	--	1.3
	84-04-13	1.7	.50	1.8	--	--	2900	3600	90	1.9
	84-05-25	1.4	.50	1.6	--	.050	1700	3500	70	2.0
	84-07-27	.84	.55	1.2	--	.030	120	650	170	2.6
431235112220401	84-01-31	--	--	--	--	--	<1400	1900	--	--
	84-03-07	1.2	--	--	--	--	1100	1700	--	.80
	84-04-11	1.4	.30	1.4	--	--	1600	2400	200	1.5

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
				BINGHAM					
431235112220401	43 12 35	112 22 04	01	02S 35E 33BABD1 GREGAN	84-05-23	1240	82.00	4483.00	572
					84-07-19	1130	82.00	4483.00	439
431232112220301	43 12 32	112 22 03	01	02S 35E 33BADB1 NP #1	84-02-02	0915	60.00	4483.00	508
					84-02-28	0915	60.00	4483.00	507
					84-04-13	1530	60.00	4483.00	739
					84-05-25	0910	60.00	4483.00	564
					84-07-27	0850	60.00	4483.00	531
431237112222801	43 12 37	112 22 28	01	02S 35E 33BBBC1 STAN JEN	84-06-01	1200	82.00	4483.00	499
					84-07-24	1345	82.00	4483.00	425
431215112221601	43 12 15	112 22 16	01	02S 35E 33BCDC1 HIGHWAY	84-02-01	0930	87.00	4481.00	563
					84-03-07	0930	87.00	4481.00	515
					84-04-11	0910	87.00	4481.00	680
					84-05-23	0915	87.00	4482.00	539
					84-07-24	0930	--	--	550
					84-07-24	0930	87.00	4481.00	--
431212112221401	43 12 12	112 22 14	01	02S 35E 33CBAA1 KATSEANE	84-02-01	1530	315	4482.00	411
					84-03-09	1300	340	4482.00	390
					84-04-11	1200	340	4482.00	406
					84-05-25	1520	340	4484.00	414
431211112222401	43 12 11	112 22 24	01	02S 35E 33CBBA1 INDUST V	84-05-22	1840	68.00	4479.00	504
					84-07-16	1955	68.00	4479.00	425
431210112222801	43 12 10	112 22 28	01	02S 35E 33CBBC1 NP STARC	84-01-31	1300	120	4480.00	431
					84-03-06	0910	120	4480.00	409
					84-04-13	1045	120	4480.00	490
					84-05-24	1300	120	4480.00	597
					84-07-26	1000	120	4480.00	511
431207112222501	43 12 07	112 22 25	01	02S 35E 33CBCB1 DEWEY IR	84-05-23	1720	71.00	4481.00	571
					84-07-25	1655	71.00	4481.00	577
431224112222201	43 12 24	112 22 22	01	02S 35E 33CBD1 ROSE SHAL	84-07-24	1150	80.00	4481.00	400
431201112221501	43 12 01	112 22 15	01	02S 35E 33CCAA1 SIMPLOT	84-04-12	1210	--	4480.00	520
					84-05-23	1600	--	4480.00	535
					84-07-25	1600	--	4480.00	524
431158112222901	43 11 58	112 22 29	01	02S 35E 33CCBB1 S R V IR	84-04-12	1755	69.52	4476.00	505
					84-05-24	1845	69.52	4476.00	422
					84-07-26	1415	69.52	4476.00	484
431218112214901	43 12 18	112 21 49	01	02S 35E 33DBBA1 NP #3	84-02-02	1115	60.00	4481.00	516
					84-02-28	1108	60.00	4481.00	531
					84-04-13	1715	60.00	4481.00	630
					84-05-25	1030	60.00	4481.00	536
					84-07-27	1005	60.00	4481.00	409

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	DATE OF SAMPLE	PH (STAND-ARD UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)
					BINGHAM						
431235112220401	84-05-23	7.3	26.5	11.0	--	--	--	--	--	6.3	250
	84-07-19	7.3	26.5	11.0	--	--	--	--	--	4.5	200
431232112220301	84-02-02	7.3	--	10.0	59	18	26	20	.8	5.6	230
	84-02-28	7.4	--	10.0	57	17	24	19	.7	5.4	220
	84-04-13	7.0	23.0	10.0	80	24	39	22	1	6.2	327
	84-05-25	7.2	10.0	10.5	--	--	--	--	--	5.0	260
	84-07-27	7.3	20.5	10.5	--	--	--	--	--	5.6	250
431237112222801	84-06-01	7.5	17.0	11.5	--	--	--	--	--	3.1	220
	84-07-24	7.2	31.5	11.5	--	--	--	--	--	--	190
431215112221601	84-02-01	7.3	2.0	8.5	61	18	25	19	.7	3.6	220
	84-03-07	7.4	-1.0	9.5	--	--	--	--	--	--	210
	84-04-11	7.4	3.5	10.0	--	--	--	--	--	4.5	250
	84-05-23	7.4	24.0	10.5	--	--	--	--	--	4.2	230
	84-07-24	7.3	--	11.5	--	--	--	--	--	--	200
	84-07-26	--	24.5	--	--	--	--	--	--	--	--
431212112221401	84-02-01	8.0	--	9.0	53	13	14	14	.5	2.6	180
	84-03-09	8.0	8.5	9.0	--	--	--	--	--	--	170
	84-04-11	7.9	9.0	9.5	--	--	--	--	--	2.5	180
	84-05-25	7.8	16.0	9.5	--	--	--	--	--	2.3	180
431211112222401	84-05-22	7.3	21.5	9.0	--	--	--	--	--	3.1	170
	84-07-19	7.5	32.0	10.0	--	--	--	--	--	2.9	190
431210112222801	84-01-31	7.7	3.0	8.5	51	12	14	14	.5	3.1	160
	84-03-06	7.3	5.0	9.0	--	--	--	--	--	--	160
	84-04-13	7.2	15.5	9.0	--	--	--	--	--	3.4	150
	84-05-24	7.1	16.5	9.5	--	--	--	--	--	4.1	200
	84-07-26	7.3	25.0	9.5	--	--	--	--	--	--	180
431207112222501	84-05-23	7.2	20.5	10.0	--	--	--	--	--	3.4	200
	84-07-25	7.2	38.0	10.5	--	--	--	--	--	--	200
431224112222201	84-07-26	7.2	9.5	9.5	--	--	--	--	--	--	180
431201112221501	84-04-12	7.0	5.0	8.0	--	--	--	--	--	3.1	210
	84-05-23	7.2	24.5	10.5	--	--	--	--	--	3.0	220
	84-07-25	7.3	38.0	13.5	--	--	--	--	--	--	230
431159112222901	84-04-12	7.3	13.5	11.5	--	--	--	--	--	3.2	220
	84-05-26	7.3	17.5	11.5	--	--	--	--	--	3.1	170
	84-07-26	7.3	34.5	13.5	--	--	--	--	--	--	210
431218112214901	84-02-02	7.5	--	9.5	53	17	15	13	.5	15	230
	84-02-28	7.5	--	10.5	59	19	16	12	.5	15	240
	84-04-13	7.3	19.0	8.0	70	24	18	12	.5	14	310
	84-05-25	7.2	13.0	9.0	--	--	--	--	--	19	280
	84-07-27	7.3	23.5	9.0	--	--	--	--	--	17	210

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	DATE OF SAMPLE	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)
					BINGHAM						
431235112220401	84-05-23	--	25	--	--	--	--	--	--	<.10	.890
	84-07-19	--	19	--	--	--	--	--	--	.63	.360
431232112220301	84-02-02	--	22	40	18	.30	23	330	.43	.20	--
	84-02-28	--	17	39	15	.80	23	320	.41	.25	.770
	84-04-13	--	54	32	21	.70	23	430	.52	2.0	.660
	84-05-25	--	31	--	--	--	--	--	--	.28	.420
	84-07-27	--	25	--	--	--	--	--	--	<.10	.990
431237112222801	84-06-01	--	14	--	--	--	--	--	--	.17	.150
	84-07-24	--	24	--	--	--	--	--	--	.36	.090
431215112221601	84-02-01	--	22	37	26	.80	21	330	.42	.31	--
	84-03-07	--	16	--	--	--	--	--	.43	<.10	.310
	84-04-11	--	22	30	--	--	--	--	.49	.44	.230
	84-05-23	--	18	--	--	--	--	--	--	.31	.180
	84-07-24	--	20	--	--	--	--	--	--	--	--
	84-07-24	--	--	--	--	--	--	--	--	.83	.060
431212112221401	84-02-01	--	3.5	30	12	.30	19	250	.35	1.5	--
	84-03-09	--	3.3	--	--	--	--	--	.33	.29	.040
	84-04-11	--	4.4	29	--	--	--	--	.32	.47	.030
	84-05-25	--	5.5	--	--	--	--	--	--	.35	<.010
431211112222401	84-05-22	--	16	--	--	--	--	--	--	7.9	1.10
	84-07-18	--	12	--	--	--	--	--	--	1.3	.510
431210112222801	84-01-31	--	6.3	34	12	.80	20	250	.33	<1.6	--
	84-03-06	--	16	--	--	--	--	--	.33	1.7	1.10
	84-04-13	--	20	41	--	--	--	--	.36	6.2	3.50
	84-05-24	--	30	--	--	--	--	--	--	5.5	1.60
	84-07-26	--	18	--	--	--	--	--	--	6.5	4.40
431207112222501	84-05-23	--	24	--	--	--	--	--	--	8.0	2.90
	84-07-25	--	25	--	--	--	--	--	--	9.5	7.30
431224112222201	84-07-24	--	22	--	--	--	--	--	--	.44	.060
431201112221501	84-04-12	--	40	36	--	--	--	--	.40	3.8	.070
	84-05-23	--	27	--	--	--	--	--	--	3.0	<.010
	84-07-25	--	22	--	--	--	--	--	--	2.1	.010
431159112222901	84-04-12	--	21	35	--	--	--	--	.41	1.8	.070
	84-05-24	--	17	--	--	--	--	--	--	1.1	<.010
	84-07-26	--	21	--	--	--	--	--	--	1.5	.020
431218112214901	84-02-02	224	14	27	16	.90	24	310	.42	.48	--
	84-02-28	--	15	21	16	.90	24	320	.42	<.10	1.70
	84-04-13	--	29	15	19	.90	26	380	.46	<.10	2.50
	84-05-25	--	34	--	--	--	--	--	--	<.10	2.60
	84-07-27	--	20	--	--	--	--	--	--	<.10	2.70

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	DATE OF SAMPLE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
				BINGHAM						
431235112220401	84-05-23	1.1	1.2	2.1	--	.050	1500	2200	150	1.1
	84-07-19	.46	.34	.70	--	<.010	50	680	70	1.6
431232112220301	84-02-02	--	--	--	--	--	230	2000	--	--
	84-02-28	.99	--	--	--	--	78	1900	--	1.3
	84-04-13	.55	.44	1.1	--	--	29	1900	110	1.4
	84-05-25	.54	.98	1.4	--	.050	80	1000	110	1.3
	84-07-27	1.3	.11	1.1	--	<.010	420	2000	92	1.4
431237112222801	84-05-01	.19	.35	.50	--	.010	<10	350	50	.70
	84-07-24	.12	.41	.50	--	--	--	--	--	--
431215112221601	84-02-01	--	--	--	--	--	97	1100	--	--
	84-03-07	.40	--	--	--	--	190	1300	--	1.1
	84-04-11	.36	.42	.70	--	--	16	1400	130	1.2
	84-05-23	.23	.62	.80	--	.040	15	1000	160	1.2
	84-07-24	--	--	--	--	--	--	--	--	--
	84-07-24	.08	.14	.20	--	--	7	230	120	1.2
431212112221401	84-02-01	--	--	--	--	--	8	6	--	--
	84-03-09	.05	--	--	--	--	70	50	--	.40
	84-04-11	.04	.17	.20	--	--	9	19	83	.40
	84-05-25	--	--	.30	--	.050	<10	40	50	.30
431211112222401	84-05-22	1.4	1.3	2.4	--	.130	20	10	130	.60
	84-07-18	.66	.29	.80	--	.060	3	12	140	.80
431210112222801	84-01-31	--	--	--	--	--	30	28	--	--
	84-03-06	1.6	--	--	--	--	30	73	--	.40
	84-04-13	4.5	.00	3.5	--	--	8	7	49	.60
	84-05-24	2.1	5.9	7.5	--	.340	30	23	100	.90
	84-07-26	5.7	1.9	6.3	--	.360	--	--	--	--
431207112222501	84-05-23	3.7	1.2	4.1	--	.270	<10	<10	70	.70
	84-07-25	9.6	1.3	8.6	--	.620	--	--	70	--
431224112222201	84-07-24	.08	--	<.20	--	--	7	2	65	.90
431201112221501	84-04-12	.09	.73	.80	--	--	9	1	140	.90
	84-05-23	--	--	1.0	--	.080	<10	<10	40	.80
	84-07-25	.01	.49	.50	--	--	--	--	60	--
431158112222901	84-04-12	.09	.83	.90	--	--	9	2	160	.50
	84-05-24	--	--	1.0	--	.010	20	<10	100	.70
	84-07-26	.03	.28	.30	--	--	--	--	90	--
431218112214901	84-02-02	--	--	--	--	--	3600	2500	--	--
	84-02-28	2.2	--	--	--	--	3300	2800	--	2.0
	84-04-13	3.2	.50	3.0	--	--	4900	3700	27	1.6
	84-05-25	3.3	1.1	3.7	--	.120	3100	2900	30	1.5
	84-07-27	3.5	.20	2.9	--	.170	<2300	2300	14	1.3

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)
				BINGHAM					
431138112231301	43 11 38	112 23 13	01	03S 35E 05BADC1 HUMPHRIE	84-04-11	1745	--	--	372
					84-05-31	1500	95.00	4472.00	267
					84-07-26	1515	95.00	4472.00	294
431132112233901	43 11 32	112 23 39	01	03S 35E 05BCBC1 DARREL W	84-05-31	1645	93.00	--	362
431128112232701	43 11 28	112 23 27	01	03S 35E 05BCDD1 WADSWORT	84-03-09	1500	75.00	4465.00	425
					84-04-12	1645	75.00	4465.00	527
					84-05-31	1545	75.00	4465.00	602
					84-07-26	1645	75.00	4465.00	513
431115112234101	43 11 15	112 23 41	01	03S 35E 05CBCB1 PETERSON	84-02-29	1445	110	4467.00	395
					84-04-10	1520	110	4467.00	395
					84-05-22	0945	110	4467.00	447
					84-07-19	1310	110	4467.00	454
431034112200701	43 10 34	112 20 07	01	03S 35E 11BCCB1 SAMUELSO	84-04-12	1430	70.00	--	599
					84-05-31	1915	70.00	--	613
				BLAINE					
423928114291001	42 39 28	114 29 10	01	4N-17E-31BBC1S WARFIELD	83-11-03	0930	--	--	323
				BUTTE					
434043113240502	43 40 43	113 24 05	02	04N 26E 18ABC2 KEITH WAD	83-11-18	1300	--	5440.00	744
434649113235401	43 46 49	113 23 54	01	05N 26E 07AAC1	83-11-18	1035	177	--	366
434640113204701	43 46 40	113 20 47	01	05N 26E 10BDD1 DON RITTE	83-10-19	0905	--	5520.00	470
					83-11-18	1000	--	--	470
434503113223601	43 45 03	113 22 36	01	05N 26E 23AAD1 LOREN HIS	83-11-18	1108	--	5510.00	474
435401113373801	43 54 01	113 37 38	01	07N 24E 32ABB1S MACKAY C	83-11-17	1545	--	6080.00	263
440431113514401	44 04 31	113 51 44	01	09N 22E 28CDB1	83-11-16	1500	51.00	6291.00	276
				CAMAS					
433349114475501	43 33 49	114 47 55	01	3N-14E-28CAD1S WORSWICK	83-11-03	1215	--	--	334
				CUSTER					
435639113382201	43 56 39	113 38 22	01	07N 24E 18AAA1	83-11-17	1545	125	--	434
440323113533402	44 03 23	113 53 34	02	08N 22E 36ABC2 VERNON RO	83-11-17	1100	88.00	6350.00	170
440034113474501	44 00 34	113 47 45	01	08N 22E 24BDC1 DENNIE DO	83-11-17	1230	22.00	6165.00	195
					84-07-29	1200	22.00	6165.00	[illegible]
440803113541701	44 08 03	113 54 17	01	09N 22E 06CCA1	83-11-16	1030	30.00	--	510
440615113524301	44 06 15	113 52 43	01	09N 22E 17CCD1 DON MCKEL	83-11-16	1215	120	6310.00	316
440458113535301	44 04 58	113 53 53	01	09N 22E 30ACC1 DEL CLARK	83-11-16	1345	850.00	6310.00	276
441548114484101	44 15 48	114 48 41	01	11N-13E-25DCC1S EAST BAS	83-11-02	1620	--	--	343
441604114445301	44 16 04	114 44 53	01	11N-15E-19CAA1S SUN BEAM	83-11-02	1545	--	--	394
441515114263401	44 15 15	114 26 34	01	11N-17E-27BDD1S SULLIVAN	83-11-02	1400	--	--	1030
442119113474900	44 21 19	113 47 49	00	12N 22E 24DBA1S	83-11-17	1430	--	--	226
					84-03-08	1120	--	--	309
442958114113901	44 29 58	116 11 39	00	14N 19E 34DAA1	83-11-15	1140	--	--	609
					84-03-06	1530	--	--	636
443123114102501	44 31 23	116 10 25	01	14N-19E-23CCC1S CHALLIS	83-11-02	0945	--	--	961
440800113501201	44 08 00	113 50 12	01	9N-22E-03DCC1S BIRCH SPR	83-11-03	1100	--	--	429
440458113540501	44 04 58	113 54 05	01	9N-22E-30BDC1S ANDERSON	83-11-18	1120	--	--	253
					84-03-08	0930	--	--	257

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	DATE OF SAMPLE	PH (STANDARD UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)
BINGHAM											
431138112231301	84-04-11	7.9	--	5.5	--	--	--	--	--	--	140
	84-05-31	7.9	17.0	10.0	--	--	--	--	--	1.9	110
	84-07-26	7.6	33.0	17.0	--	--	--	--	--	--	130
431132112233901	84-05-31	7.6	20.0	9.5	--	--	--	--	--	2.1	160
431128112232701	84-03-09	7.3	13.0	11.0	56	11	11	11	.4	5.5	160
	84-04-12	6.9	14.5	8.5	73	14	12	10	.4	4.6	210
	84-05-31	7.1	20.0	9.0	--	--	--	--	--	4.5	240
	84-07-26	7.0	35.0	12.5	--	--	--	--	--	--	240
431115112234101	84-02-29	7.6	9.0	9.0	50	13	11	12	.4	2.4	160
	84-04-10	7.6	7.0	9.0	50	13	11	12	.4	2.2	160
	84-05-22	7.5	--	9.0	--	--	--	--	--	2.4	190
	84-07-19	7.4	29.0	10.5	--	--	--	--	--	2.5	220
431034112200701	84-04-12	7.2	15.0	15.0	--	--	--	--	--	3.4	290
	84-05-31	7.3	21.0	15.5	--	--	--	--	--	3.6	300
BLAINE											
423828114291001	83-11-03	9.3	--	51.0	2.4	<.01	66	--	--	1.6	81
BUTTE											
434043113240502	83-11-18	7.6	--	10.5	92	20	37	20	.9	1.5	240
434649113235401	83-11-18	8.0	--	9.0	--	--	--	--	--	--	150
434640113204701	83-10-19	7.6	.0	8.5	--	--	--	--	--	--	200
	83-11-18	7.6	--	8.5	--	--	--	--	--	--	200
434503113223601	83-11-18	7.7	8.0	10.5	--	--	--	--	--	--	--
435401113373801	83-11-17	7.9	10.0	16.5	--	--	--	--	--	--	120
440431113514401	83-11-16	8.0	19.5	10.0	--	--	--	--	--	--	--
CAMAS											
433349114475501	83-11-03	9.0	--	86.5	1.5	<.01	69	--	--	2.0	84
CUSTER											
435639113382201	83-11-17	7.8	15.0	11.5	--	--	--	--	--	--	170
440323113533402	83-11-17	7.4	6.0	9.5	--	--	--	--	--	--	66
440034113474501	83-11-17	7.0	8.0	9.5	--	--	--	--	--	--	35
	84-07-29	--	--	--	--	--	--	--	--	--	--
440803113541701	83-11-16	7.5	5.0	8.0	--	--	--	--	--	--	230
440615113524301	83-11-16	8.3	11.0	7.5	--	--	--	--	--	--	120
440458113535301	83-11-16	8.0	11.5	10.5	--	--	--	--	--	--	120
441548114484101	83-11-02	9.5	--	56.5	1.8	<.01	71	--	--	1.7	88
441604114445301	83-11-02	9.0	--	76.5	2.1	.02	89	96	17	2.4	103
441515114263401	83-11-02	6.9	--	40.0	48	11	170	67	6	16	454
442119113474900	83-11-17	8.3	--	5.5	34	9.0	1.3	2	.0	.30	--
	84-03-08	--	2.0	5.5	41	13	1.8	2	.0	.40	170
442958114113901	83-11-15	--	7.0	39.5	60	26	40	25	1	7.7	--
	84-03-09	7.4	3.0	38.5	62	25	38	24	1	8.5	268
443123114102501	83-11-02	7.0	--	50.0	47	16	150	61	5	18	358
440800113501201	83-11-03	--	--	2.5	39	28	6.0	6	.2	1.5	--
440458113540501	83-11-18	8.2	--	12.0	32	9.6	4.9	8	.2	1.0	--
	84-03-08	7.8	7.0	12.0	35	10	4.5	7	.2	1.0	139

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	DATE OF SAMPLE	ALKALINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)
					BINGHAM						
431138112231301	84-04-11	--	3.6	--	--	--	--	--	--	--	--
	84-05-31	--	2.8	--	--	--	--	--	--	.23	<.010
	84-07-26	--	6.4	--	--	--	--	--	--	.25	.050
431132112233901	84-05-31	--	7.6	--	--	--	--	--	--	.87	<.010
431128112232701	84-03-09	--	16	43	11	.70	22	270	.36	<.10	.190
	84-04-12	--	52	49	14	.50	19	320	.43	.92	.070
	84-05-31	--	37	--	--	--	--	--	--	11	<.010
	84-07-26	--	46	--	--	--	--	--	--	2.4	.030
431115112234101	84-02-29	--	8.4	32	9.8	.80	19	240	.32	<.10	.070
	84-04-10	--	8.0	33	10	.80	20	240	.33	<.10	.120
	84-05-22	--	12	--	--	--	--	--	--	--	--
	84-07-19	--	16	--	--	--	--	--	--	<.10	.070
431034112200701	84-04-12	--	35	22	--	--	--	--	.45	.72	.040
	84-05-31	--	29	--	--	--	--	--	--	1.5	<.010
					BLAINE						
423828114291001	83-11-03	77	.0	40	6.0	14	87	--	--	<.10	--
					BUTTE						
434043113240502	83-11-13	251	12	50	50	.20	32	430	.59	5.4	--
434649113235401	83-11-18	--	3.0	19	8.1	--	--	--	--	1.5	--
434640113204701	83-10-19	--	10	19	12	--	--	--	--	1.1	--
	83-11-18	--	10	--	--	--	--	--	--	--	--
434503113223601	83-11-18	--	8.2	20	4.1	--	--	--	--	2.5	--
435401113373801	83-11-17	--	3.0	9.0	4.4	--	--	--	--	.31	--
440431113514401	83-11-16	--	2.4	15	2.2	--	--	--	--	.24	--
					CAMAS						
433349114475501	83-11-03	89	.0	28	5.9	14	92	--	--	<.10	--
					CUSTER						
435639113382201	83-11-17	--	5.3	27	14	--	--	--	--	.90	--
440323113533402	83-11-17	--	5.1	13	1.8	--	--	--	--	<.10	--
440034113474501	83-11-17	--	16	11	1.5	--	--	--	--	<.10	--
	84-07-29	--	--	9.7	1.6	--	--	--	--	<.10	--
440803113541701	83-11-16	--	11	18	3.9	--	--	--	--	1.2	--
440615113526301	83-11-16	--	1.2	23	4.6	--	--	--	--	.42	--
440458113535301	83-11-16	--	2.2	11	2.8	--	--	--	--	.19	--
441548114484101	83-11-02	80	.0	41	6.0	14	52	--	--	<.10	--
441604114445301	83-11-02	97	.0	45	15	15	36	350	.48	<.10	--
441515114263401	83-11-02	428	110	39	57	3.3	37	650	.89	<.10	--
442119113474900	83-11-17	113	1.1	17	.50	.20	5.1	140	.19	.21	--
	84-03-08	142	--	21	1.3	.30	5.9	190	.25	.21	--
442958114113901	83-11-15	203	--	130	3.9	.90	21	410	.56	<.10	--
	84-03-08	216	21	140	3.3	.90	21	460	.62	<.10	--
443123114102501	83-11-02	366	70	130	22	4.4	30	630	.86	.12	--
440800113501201	83-11-03	194	--	25	3.9	<.10	8.6	230	.31	<.10	--
440458113540501	83-11-18	113	1.4	19	3.2	.32	12	150	.20	.21	--
	84-03-08	122	4.3	18	3.1	.30	13	170	.23	.22	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

STATION NUMBER	DATE OF SAMPLE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
					BINGHAM					
431138112231301	84-04-11	--	--	--	--	--	--	--	--	--
	84-05-31	--	--	.30	--	.010	36	<1	45	1.2
	84-07-26	.06	--	<.20	--	--	--	--	--	.90
431132112233901	84-05-31	--	--	.50	--	.010	7	6	30	1.0
431128112232701	84-03-09	.24	--	--	--	--	2000	5100	--	1.1
	84-04-12	.09	.23	.30	--	--	410	2500	61	.70
	84-05-31	--	--	1.2	--	.010	150	44	130	1.6
	84-07-26	.04	.47	.50	--	--	110	540	--	1.5
431115112234101	84-02-29	.09	--	--	--	--	370	1200	--	.90
	84-04-10	.15	--	<.20	--	--	550	1400	71	.70
	84-05-22	--	--	--	--	--	<1200	3100	60	--
	84-07-19	.09	--	<.20	--	.010	1300	3900	40	1.1
431034112200701	84-04-12	.05	.36	.40	--	--	43	3	60	.80
	84-05-31	--	--	.50	--	.010	13	9	68	.70
					BLAINE					
423828114291001	83-11-03	--	--	--	<.010	--	--	--	--	--
					BUTTE					
434043113240502	83-11-18	--	--	--	.050	--	--	--	--	--
434649113235401	83-11-18	--	--	--	--	--	--	--	--	--
434640113204701	83-10-19	--	--	--	--	--	--	--	--	--
	83-11-18	--	--	--	--	--	--	--	--	--
434503113223601	83-11-18	--	--	--	--	--	--	--	--	--
435401113373801	83-11-17	--	--	--	--	--	--	--	--	--
440431113514401	83-11-16	--	--	--	--	--	--	--	--	--
					CAMAS					
433349114475501	83-11-03	--	--	--	<.010	--	--	--	--	--
					CUSTER					
435639113382201	83-11-17	--	--	--	--	--	--	--	--	--
440323113533402	83-11-17	--	--	--	--	--	--	--	--	--
440034113474501	83-11-17	--	--	--	--	--	--	--	--	--
	84-07-29	--	--	--	--	--	--	--	--	--
440803113541701	83-11-16	--	--	--	--	--	--	--	--	--
440615113524301	83-11-16	--	--	--	--	--	--	--	--	--
440458113535301	83-11-16	--	--	--	--	--	--	--	--	--
441548114484101	83-11-02	--	--	--	<.010	--	--	--	--	--
441604114445301	83-11-02	--	--	--	<.010	--	--	--	--	--
441515114263401	83-11-02	--	--	--	<.010	--	--	--	--	--
442119113474900	83-11-17	--	--	--	.090	--	--	--	--	--
	84-03-08	--	--	--	.010	--	5	<1	12	--
442958114113901	83-11-15	--	--	--	.010	--	--	--	--	--
	84-03-08	--	--	--	.010	--	--	--	--	--
443123114102501	83-11-02	--	--	--	.010	--	--	--	--	--
440800113501201	83-11-03	--	--	--	<.010	--	--	--	--	--
440458113540501	83-11-18	--	--	--	<.010	--	--	--	--	--
	84-03-08	--	--	--	.030	--	<3	2	10	--

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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons